Government of the Republic of Trinidad and Tobago

**MINISTRY OF EDUCATION** 



# GUIDELINES FOR THE LOWER SECONDARY PROFICIENCY EXAMINATION (LSPE)

	LSPE EXAM SHEET
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#### **INTRODUCTION**

The Lower Secondary School Proficiency Examination (LSPE) is intended to replace the Primary School Leaving Certificate Examination (PSLCE) from the year 2024 and onwards. It is designed to provide students with a form of certification in key competencies such as Mathematics, English Language, English Comprehension and Composition and General Studies. Whereas the first administration targets Form 2 students at the secondary level for academic year 2023/24 who scored less than 50% at SEA 2022, the LSPE will be opened to all institutions/students who previously sat the PSLCE, inclusive of:

- SERVOL Life Centre
- Adult Education Centre
- Correctional Centre or Facility
- Other ministries

The LSPE draws its content from the Upper Primary School Curriculum (Standards 4/5) and the Lower Secondary NCSE (Forms 1 and 2). For students at the Secondary School level, the LSPE certificate will provide a pathway for students as they progress to the upper secondary school level. The assessment will be administered in June of each year with registration taking place in November/December of the previous year and dissemination of results by September of the year of administration. The items in the LSPE will comprise a mixture of open ended or constructed response (CR) and Multiple-Choice Question (MCQ). The grading scheme will provide the following results: distinction, credit, pass and fail.

#### **Rationale for the LSPE**

- To certify students in basic competencies in view of Covid-19 and learning loss.
- To upgrade the PSLCE.
- To be part of a comprehensive system of school operations' 2022-27 pathway for students.

# Methodology

The Lower Secondary Proficiency Examination (LSPE) will be administered in the year 2024.

# **Target Population**

The LSPE will be administered to:

- 1. Form two students for the Academic Year 2023/24
- 2. Servol Life Centres
- 3. Adult Education Centres
- 4. Correctional Centres or Facilities

#### **Registration Process**

Secondary Schools will register Form 2 students for the Academic Year 2023/24 for the assessment. Software will be utilised, and a link will be sent for registration of students.

Advertisements will also be placed on the MOE's Facebook page and website for any other persons who are desirous of sitting the LSPE.

Registration will occur in the months of November and December prior to the year of test administration. The registration form will require the Personal Identification Number (PIN) from the Trinidad and Tobago Birth Paper and the signature of each candidate. There will be no fees associated with writing the LSPE.

#### **The Subject Booklets**

There will be four (4) assessments to be conducted over a two (2) day period. This includes English Language, English Comprehension and Composition, Mathematics and General Paper.

- 1. The English Language test examines grammar conventions, punctuation, vocabulary, and spelling skills.
- 2. The English Composition and Comprehension test comprises two sections. **Section I** examines three different types of Comprehension (Expository passage, Research Skills and Graphic Representation), while **Section II** assesses narrative (story) or expository writing through letters (friendly and formal), instructions, directions, and simple reports.

- The Mathematics test focuses on authentic everyday applications and skills, such as Consumer Arithmetic, Measurement, Statistics and Geometry.
- 4. The General Paper consists of two sections. Section I contains multiple-choice items in the areas of Social Studies, Current Affairs, Integrated Science and Agricultural Science. Section II comprises constructed response items and examines content from Social Studies, Integrated Science and Agricultural Science.

# **Grading Scheme**

The four subjects will be graded individually based on the percentage score earned, using the following criteria.

Grade	Percentage Score
Distinction	100% - 75%
Credit	74% - 55%
Pass	54% - 40%
Fail	39% - 0%

Each candidate is provided with a Performance Report indicating the marks earned in each subject booklet written.

A Lower Secondary Proficiency Certificate will be awarded to a candidate who earns at least a pass grade in all four subject booklets.

#### **Repeating the Examination**

A candidate has the option to rewrite the examination in part or its entirety based on the following conditions:

- Repeat examination in part- Such a candidate has earned a *passing grade in at least two (2) subject areas*. This candidate has up to two (2) years, from the initial writing of the examination, in which to rewrite and pass the subject areas failed to earn a Lower Secondary Proficiency Education Certificate.
- 2. **Repeat the examination in its entirety-** Such a candidate exists in one of two categories:
  - earned a passing grade in *less than two* (2) *subject areas; and*
  - wishes to improve the grades earned.

#### **Querying Results**

Examination results will be released by August 30th. A candidate has up to one (1) month after the release of the results in which to submit a query of his/her results. This will incur a cost to the candidate per subject area. Forms for queries will be provided and candidates will be required to fill out and re-submit along with a payment receipt to the Ministry of Education, Examinations Department. The scripts will be re-marked, and scores and grades will be adjusted as necessary. Candidates will be informed in writing of the outcome of the query.

#### **Test Administration**

	Subject areas Time		Duration
Day 1	Mathematics	8:30 a.m. – 10:00 a.m.	1 hour 30 minutes
Day 1	General Paper	10:30 a.m. – 12:00 noon	1 hour 30 minutes
Day 2	English Composition	8:30 a.m. – 10:00 a.m.	1 hour 30 minutes
Day 2	English Language	10:30 a.m. – 12:00 noon	1 hour 30 minutes

The assessments will be administered in the first week of June of each year.

# Scoring, Processing and Reporting of the LSPE

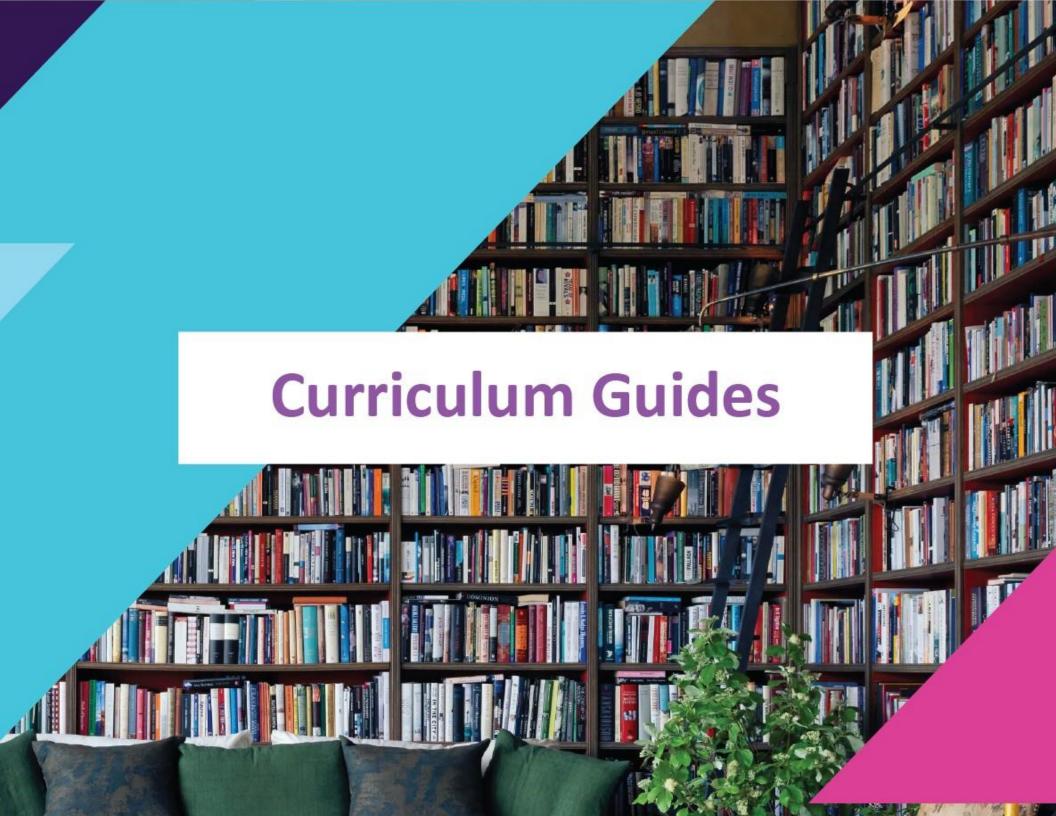
The scoring of the assessments will include teachers at Forms 1 and 2 levels in the respective subject areas. Markers will be given the opportunity to apply, and selected personnel will be standardised for the marking exercise. A stipend will be paid to the teachers marking the scripts. The data will then be captured from the scripts by an external agency and delivered to the Ministry of Education. Quality control checks will be conducted to ensure validity of results. The results will then be analysed using different thresholds such as percentages, mean scores, individual items, and strands. This information will then be utilised to generate reports on the LSPE.

These reports will provide comprehensive information about what students know and can do in Mathematics, General Paper, English Language and English Comprehension and Composition. They will present information on strengths and weaknesses in students' knowledge of the Mathematics, General Paper, English Language and English Comprehension and Composition and their ability to apply that knowledge in problem-solving situations.

# **LSPE Test Specifications**

#### Number of Items in Test Booklets for 2024 LSPE

Test Booklet	Subject Area	Number of Items
Mathematics	Mathematics	35
English Language Arts	English Language Arts	34
Composition and Comprehension	Composition/Comprehension	20
Concerned Demon	Science/Agricultural Science	18
General Paper	Social Studies	26



# **English Language Arts**

# **ENGLISH LANGUAGE ARTS**

	Vocabulary				
Торіс	Learning or General Outcomes	Specific Objectives or Content Scope	Instructional Strategies	RESOURCES/ MATERIALS	
Synonyms	Define the term synonym and use synonyms.	Identify and use synonyms appropriately in sentences.	Read passages with highlighted words and insert suitable synonyms in context. Use a thesaurus/dictionary to find suitable synonyms.	https://www.youtube.com/wat ch?v=thf0XGOXE6w https://www.ezschool.com/Ga mes/Grade3/English/Synonym s/ https://www.wordgametime.co m/games/extraordinary- elephants-synonyms-game	
Content Area Vocabulary	Determine the different meanings of words as used in different content areas.	Classify words and their meanings according to their content area.	Construct sentences to illustrate the meaning of words used in a particular context. Use graphic organiser to provide a detailed understanding of new words.	Word Wall Large manila folders, rulers and markers Graphic Organiser Frayer Model	
Multiple-meaning words	Use words in context to show their different meanings.	Determine the meaning of words by analysing the context.	Provide examples of words used in different context. Write sentences to illustrate the different	https://www.youtube.com/wat ch?v=LoOzJRXrCMU	

Vocabulary				
Торіс	Learning or General Outcomes	Specific Objectives or Content Scope	Instructional Strategies	RESOURCES/ MATERIALS
			meanings of words e.g., cast, back, bolt, show.	
			Construct sentences to illustrate the multiple meanings of words across subjects.	
Multiple-meaning words	Use words in context to show their different meanings.	Determine the literal and figurative meanings of words.	Provide examples of words used in different context.	https://www.youtube.com/wat ch?v=LoOzJRXrCMU
			Identify specific multiple meaning words.	
			Write sentences to illustrate the different meanings of words.	
Antonyms	Define the term, 'antonym' and use antonyms	Identify and use antonyms appropriately in sentences.	Students use graphic organisers to group words that are opposite to a given word.	https://www.youtube.com/wat ch?v=QZ9CMRkBeuk
			Read passages with highlighted words and insert suitable antonyms in context.	https://www.wordgametime.co m/games/furious-frogs

Vocabulary				
Торіс	Learning or General Outcomes	Specific Objectives or Content Scope	Instructional Strategies	RESOURCES/ MATERIALS
			Use a thesaurus to find suitable antonyms.	
Context clues Antonyms	Distinguish words from other words opposite in meaning.	Identify and use antonyms in sentences.	Use dictionary and thesaurus to find meanings of words. Practise replacing words with antonyms.	https://www.youtube.com/wat ch?v=QZ9CMRkBeuk https://www.youtube.com/wat ch?v=eHCpJ86XDY4
Prefixes -pre, sub, ex, inter, mis, -en, ir, trans, anti, pro, super, un, under, dis, re, im, in, semi	Deduce the meaning of the words with prefixes in reading passages.	State the meaning of prefixes. Identify words containing prefixes in passages. Use words containing prefixes orally and in written sentences.	Activities to add or remove prefixes from words Exercises to underline/match prefixes in words. Students play online prefix games.	https://www.youtube.com/wat ch?v=w7oGNyHX811 https://www.ezschool.com/Ga mes/Grade4/English/Prefixes AndSuffixes/Prefixes/Tutorial Prefixes/#
Context Clues	Use context to determine meaning of words.	Use context clues to complete cloze passages.	Have students use signal words "is" and "means" to identify /guess the meaning of unfamiliar words.	https://www.youtube.com/wat ch?v=eHCpJ86XDY4
Homophones	Distinguish the differences in meaning of homophones.	Identify and explain the meaning of homophones in context.	Prepare sentences in cloze format requiring	https://www.ezschool.com/Ga mes/Grade3/English/Homoph ones/

Vocabulary				
Торіс	Learning or General Outcomes	Specific Objectives or Content Scope	Instructional Strategies	RESOURCES/ MATERIALS
			the use of homophones for completion.	https://www.youtube.com/wat ch?v=6kbkH4y9iXg
Suffixes - ly, er, ful, ness	Deduce the meaning of the words with suffixes in reading passages.	State the meaning of suffixes. Identify words. containing suffixes in passages. Use words containing suffixes orally and in written sentences.	Match suffixes to root words. Students play online suffix games.	https://www.youtube.com/wat ch?v=635oQTY61J8 https://www.ezschool.com/Ga mes/Grade4/English/Prefixes AndSuffixes/#Suffixes

		Comprehension		
Торіс	Learning or General Outcomes	Specific Objectives or Content Scope	Instructional Strategies	RESOURCES/ MATERIALS
Main idea	Identify the main idea in visual and oral texts.	<ol> <li>Identify the main topic of a multi paragraph text.</li> <li>Identify the main idea stated or implied.</li> <li>Identify the focus of specific paragraphs within the text.</li> <li>Determine the main idea of a text.</li> <li>Summarise the text (expository).</li> </ol>	<ol> <li>Students distinguish between main idea and supporting details using graphic organisers</li> <li>State one main idea/message with supporting details</li> <li>Analyse simple details from key words and represent in graphic organizers</li> </ol>	https://educationtothecore.com /2019/11/10-great-activities- to-teach-main-idea-and- details/#:~:text=The%20main %20idea%20is%20defined,as %20well%20as%20in%20writ ing. https://www.k5learning.com/r eading-comprehension- worksheets/topics/main-ideas- details
Literal questions	Know the 5 Ws and 1H – who, what, where, when why and how- and how to use them.	<ol> <li>Use the 5 Ws and 1 H to determine literal information.</li> <li>Respond to literal questions based on a given stimulus.</li> <li>Demonstrate the ability to recall details in texts.</li> </ol>	<ol> <li>5W+H graphic organiser</li> <li>Display images and have students answer questions</li> <li>Create their own 5Ws and 1 H questions from a given stimulus</li> </ol>	https://www.youtube.com/wat ch?v=oi7RfnlkTL4 https://www.teacherspayteache rs.com/Browse/Price- Range/Free/Search:5+ws+grap hic+organizer

	Comprehension					
Торіс	Learning or General Outcomes	Specific Objectives or Content Scope	Instructional Strategies	RESOURCES/ MATERIALS		
		<ul> <li>4. Demonstrate the ability to ask and answer questions about texts.</li> <li>5. Write a complete sentence answer to a literal comprehension question.</li> </ul>		https://www.superteacherwork sheets.com/comprehension.ht ml		
Inferential questions	Respond to and generate inferential questions.	<ol> <li>Make inferences based on the use of pictures, situation cards and short texts.</li> <li>Explore explicit details and implied messages in oral texts.</li> </ol>	<ol> <li>Use specific content area- literary or informational texts</li> <li>Use pictures/short texts and allow students to infer by asking appropriate questions.</li> </ol>	https://www.ereadingworkshee ts.com/free-reading- worksheets/reading- comprehension- worksheets/inferences- worksheets/ https://www.youtube.com/wat ch?v=g2G-MaIxjBI		
Sequencing	Identify story sequence – beginning, middle and end. Identify sequence in expository texts.	<ol> <li>List events in order</li> <li>Show chronological order</li> <li>Create a timeline for characters</li> <li>Sequence details or events in a variety of genres.</li> </ol>	<ul> <li>Explore sequencing in Music and dance</li> <li>Discuss sequencing of events in History and Social Studies texts.</li> <li>Use of graphic organisers, e.g., time</li> </ul>	https://www.k5learning.com/r eading-comprehension- worksheets/topics/sequencing https://www.teacherspayteache rs.com/Browse/Search:free%2 Osequencing%20graphic%20o rganizer		

	Comprehension				
Торіс	Learning or General Outcomes	Specific Objectives or Content Scope	Instructional Strategies	RESOURCES/ MATERIALS	
		5. Arrange sequentially, a series of steps in a simple process.	lines, to represent information		
Fact and Opinion	Differentiate between fact and opinion.	<ol> <li>Identify facts and opinions in texts.</li> <li>Identify the language of fact.</li> <li>Identify the language of opinion.</li> <li>Identify and assess the effects of words and phrases in messages, which are used for persuasion, facts and opinions.</li> </ol>	<ol> <li>Students read two accounts of the same incident, one factual and another from someone's point of view.</li> <li>Students are given samples of factual and opinion statements. Using a T-chart, they place each statement in one of the two columns</li> </ol>	https://www.easyteacherworks heets.com/langarts/factopinion .html https://www.easyteacherworks heets.com/graphorg/factopinio n.html https://www.readwritethink.or g/classroom- resources/printouts/chart#:~:te xt=The%20T%2DChart%20is %20a,phenomena%2C%20or %20social%20studies%20eve nts.	
Compare and Contrast	Identify the non-fiction text structure compare and contrast.	<ol> <li>Identify the language of comparison and contrast</li> <li>Identify similarities and differences in texts</li> </ol>	1. Students solve "Spot the Difference" puzzle.	https://www.printitfree.net/spo t-the-difference-picture- puzzles/	

	Comprehension				
Торіс	Learning or General Outcomes	Specific Objectives or Content Scope	Instructional Strategies	RESOURCES/ MATERIALS	
		3. Compare and contrast similar themes presented in two different literary texts	2. Using a Venn diagram, students record features identified in photographs that are similar and different.	https://www.k5learning.com/r eading-comprehension- worksheets/topics/compare- contrast	
Cause and Effect	Apply knowledge of inference and deduction to identify/ cause and effect relationships in texts.	<ol> <li>Identify the language of cause and effect (transitions).</li> <li>Determine the difference between cause and effect.</li> <li>Respond to literal and inferential questions.</li> </ol>	<ol> <li>Represent cause and effect information using graphic representations.</li> <li>Use print and electronic materials/passages (informational and literary) of interest to students.</li> </ol>	https://www.k12reader.com/s bject/reading-skills/cause-and effect/ https://www.youtube.com/wa ch?v=mKBthdR8sYU https://www.readwritethink.on g/sites/default/files/resources/ esson_images/lesson1035/cau e.pdf	

	Comprehension				
Торіс	Learning or General Outcomes	Specific Objectives or Content Scope	Instructional Strategies	RESOURCES/ MATERIALS	
Relevant and Irrelevant information	Differentiate between relevant and irrelevant information.	<ol> <li>Determine important information in expository text.</li> <li>Recognise that not all information in a passage is important</li> <li>Identify the information that supports the topic sentence in a paragraph.</li> </ol>	<ol> <li>Find the main idea of paragraphs and then get rid of the irrelevant details in these paragraphs.</li> <li>Use relevant and irrelevant details worksheets</li> <li>Analyse advertisements to determine what is really needed about the product.</li> </ol>	https://quizizz.com/admin/quiz /5d8d23f9c2dde9001ad5790a/ relevant-vs-irrelevant-details https://www.grammarbank.co m/irrelevant-sentences- worksheets.html	
Predicting & confirming outcomes	Make predictions.	<ol> <li>Make predictions about content and meanings in reading passages.</li> <li>Confirm and revise predictions about content in reading passages.</li> <li>Employ taught strategies to assist in making meaning: predicting</li> <li>Read title and study illustrations to gain understanding of or make predictions about the text.</li> </ol>	<ol> <li>Read the title/first sentence/ then predict what will happen next/what the piece will be about</li> <li>Use KWL and Anticipation Guide</li> </ol>	https://www.ereadingworkshee ts.com/worksheets/reading/pre dictions/making-predictions- worksheet-01/ https://www.readwritethink.or g/sites/default/files/resources/l esson_images/lesson924/kwl.p df https://www.readingrockets.or g/strategies/anticipation_guide	

Comprehension				
Торіс	Learning or General Outcomes	Specific Objectives or Content Scope	Instructional Strategies	RESOURCES/ MATERIALS
Explicit details	Use explicit details to answer questions.	<ol> <li>List explicit details in given texts.</li> <li>Answer literal questions based on given texts.</li> <li>Create literal questions.</li> <li>Explain the importance of identifying key information in texts.</li> </ol>	<ol> <li>Students read selected descriptive texts</li> <li>Students recreate what is described in the text in graphic form</li> <li>Creation of questions based on a given text using the 5Ws and 1H</li> </ol>	https://www.teacherspayteache rs.com/Browse/Search:5ws+w orksheets/Price-Range/Free
Drawing Conclusions	Draw conclusions and infer meaning.	<ol> <li>Determine a purpose for writing</li> <li>Discuss introduction, rising action, climax, falling action and conclusion in literary texts</li> </ol>	<ol> <li>Read a passage and draw conclusions about a character based on what was said about him/her</li> <li>Use graphic organisers</li> <li>Complete worksheets</li> </ol>	https://www.youtube.com/wat ch?v=B4hNyUyfhvU https://www.k12reader.com/su bject/reading-skills/drawing- conclusions/
Character traits	Identify character traits.	<ol> <li>Discuss own ideas and opinions about characters.</li> <li>Identify with story characters.</li> </ol>	<ol> <li>Read Aloud 5Ws and 1H</li> <li>Encourage students to talk about</li> </ol>	https://www.teacherspayteache rs.com/Browse/Search:5ws+w orksheets/Price-Range/Free

	Comprehension				
Торіс	Learning or General Outcomes	Specific Objectives or Content Scope	Instructional Strategies	RESOURCES/ MATERIALS	
		3. Discuss characters using descriptive words.	<ul> <li>characters in movies and stories</li> <li>3. Make oral presentation of characters' profiles.</li> <li>4. Sketch to stretch</li> <li>5. Read culturally relevant stories.</li> <li>6. Describe characters in photos and video clips.</li> </ul>	https://www.teacherspayteache rs.com/Browse/Search:charact er+sketch/Price-Range/Free	
Research skills	Engage in research skills.	<ol> <li>Find information in non- fiction texts.</li> <li>Interpret information presented in a variety of media.</li> <li>Apply research skills and categorise information through the appropriate use of         <ul> <li>table of contents</li> <li>index</li> <li>dictionary</li> <li>encyclopedia</li> <li>library</li> <li>portfolio</li> </ul> </li> </ol>	<ul> <li>Find information in non-fiction text using headings, subheadings, illustrations and captions, alphabetise words according to the first letter.</li> <li>Use worksheets</li> </ul>	https://www.teach- nology.com/worksheets/resear ch/	

	Comprehension				
Торіс	Learning or General Outcomes	Specific Objectives or Content Scope	Instructional Strategies	RESOURCES/ MATERIALS	
		• glossary			
Instructions and directions	Follow and provide directions and instructions.	<ol> <li>Follow directions and instructions accurately.</li> <li>Follow and provide more complex instructions and directions in Standard English.</li> <li>Use transitional words effectively.</li> </ol>	Maps can be used to help students give directions from one point to another.	https://www.liveworksheets.co m/worksheets/en/English_as_a _Second_Language_(ESL)/Gi ving_Instructions https://www.liveworksheets.co m/pc69169bj	
Graphic representation	Respond to a variety of diagrammatic representations.	1. Respond to diagrammatic representations, forms and advertisements such as vacancies for employment, job applications, and applications to membership (clubs and groups).	<ol> <li>Authentic documents</li> <li>Newspaper vacancy advertisements</li> <li>Membership slips/forms</li> </ol>	https://www.canva.com/poster s/templates/recruitment/	

	Writing				
Торіс	Learning or General Outcomes	Specific Objectives or Content Scope	Instructional Strategies	RESOURCES/MATERIALS	
Punctuation and Capitalisation	Know and apply rules of punctuation and capitalisation to use in and edit writing.	<ol> <li>Use the following punctuation marks in sentences: full stop, question mark, exclamation mark, apostrophe in contractions and possessives, quotation marks, commas in apposition, in words in a series and in addresses.</li> </ol>	<ol> <li>Punctuation worksheets</li> <li>Complete capitalisation worksheets</li> <li>Apply C.U.P.S. and M.I.N.T.S. acronyms when writing.</li> </ol>	https://www.k12reader.com/su bject/grammar/punctuation/ https://cdn5- ss18.sharpschool.com/UserFil es/Servers/Server_222635/File /Academics/2nd%20Grade/Ho mework/CUPS.pdf	
Spelling	Apply spelling rules when writing.	<ol> <li>Know and apply spelling rules to spell words correctly in their writing.</li> <li>Syllabication rules</li> <li>Phonics</li> <li>Inflectional Endings</li> <li>Make and use new words by adding prefixes and suffixes to root words in writing.</li> </ol>	Break words into chunks that are easier to spell (e.g., "planting" can be broken down into [pl] [ant] [ing]). Complete root words and affixes worksheets Have students create mnemonics to remember words.	https://www.k12reader.com/su bject/spelling-skills/spelling- rules/ https://www.youtube.com/wat ch?v=G-bavyY9jj4 https://www.edhelper.com/lan guage/Syllabication.htm	

Writing				
Торіс	Learning or General Outcomes	Specific Objectives or Content Scope	Instructional Strategies	RESOURCES/MATERIALS
		3. Use spelling patterns, technical words, words derived from other languages in their writing	Use the Look-Say- Cover-Write-Check strategy.	
Grammar	Know and apply grammatical rules to writing and editing.	<ol> <li>Identify and use the eight parts of speech.</li> <li>Apply rules:         <ul> <li>of subject and verb agreement</li> <li>appropriate use of tense</li> <li>correct usage of parts of speech</li> </ul> </li> </ol>	<ul> <li>Use authentic writing situations every day.</li> <li>Encourage students to read a variety of nonfiction, informational, and fiction texts to expose them to multiple texts and a variety of writing situations.</li> </ul>	https://www.grammarly.com/g rammar https://www.grammarbank.co m/english-grammar- exercises.html https://www.grammarbank.co m/

Writing					
Торіс	Learning or General Outcomes	Specific Objectives or Content Scope	Instructional Strategies	RESOURCES/MATERIALS	
Sentences	Build sentence knowledge.	<ol> <li>Compose simple sentence (one subject and one verb).</li> <li>Use high-frequency words in simple sentences.</li> <li>Differentiate sentence from fragments.</li> <li>Identify subject and predicate.</li> <li>Identify main clauses.</li> </ol>	<ol> <li>Matching exercises</li> <li>Texts for Read Alouds -Visual aids (photos/ pictures/graphics)</li> <li>Lyrics of popular songs/rap</li> <li>Descriptions</li> <li>Letters/Emails</li> <li>Reflections</li> <li>Instructions</li> <li>Directions</li> <li>Directions</li> <li>-Examine clause structure in a range of content area texts</li> <li>Compose subject specific sentences.</li> </ol>	https://www.k5learning.com/fr ee-grammar- worksheets/sentences https://www.k5learning.com/fr ee-grammar-worksheets/first- grade-1/sentences/types https://www.ereadingworkshe ets.com/languageartsworkshee ts/sentence-structure/sentence- structure-worksheets/type-of- sentences-worksheets/	
Narrative writing	Write stories.	<ol> <li>Compose narratives (stories).</li> <li>Demonstrate the use of plot structure, character development, setting and sensory descriptive words.</li> </ol>	<ol> <li>Create digital stories.</li> <li>Use picture prompts.</li> <li>Use the writing process: Pre-writing (brainstorming), writing, revising, editing, publishing</li> </ol>	https://www.education.com/w orksheets/narrative-writing/ https://k12.thoughtfullearning. com/FAQ/what-are-steps- writing-process	

Writing					
Торіс	Learning or General Outcomes	Specific Objectives or Content Scope	Instructional Strategies	RESOURCES/MATERIALS	
		3. Use literary devices, simile, metaphor and personification effectively.	<ul> <li>4. Use C.U.P.S., M.I.N.T.S. and A.R.M.S. acronyms when writing.</li> <li>5. Use graphic organisers</li> </ul>		
Expository writing	Write different forms of expository texts	Apply the stages of pre- writing, drafting, revising editing and publishing	Use the writing process: pre-writing (brainstorming), writing, revising, editing, publishing Use C.U.P.S., M.I.N.T.S. and A.R.M.S. acronyms when writing Graphic organisers	https://www.grammarly.com/b log/expository-writing/ https://www.teacherspayteach ers.com/Browse/PreK-12- Subject-Area/Expository- Writing/Type-of- Resource/Worksheets/Price- Range/Free	

# **Social Studies**



ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
Who Am I? A Unique Individual	Appreciate one's uniqueness and understand oneself better as an individual	Define relevant terms and concepts • Uniqueness • Individuality • Characteristic • Heredity • Environment • Genes • Personality Recognise themselves and others as unique individuals	<ul> <li>Teaching and Learning Strategy:</li> <li>Research terms and concepts.</li> <li>Develop concept maps on the terms and concepts.</li> <li>Create a word wall using the terms and concepts.</li> <li>Assessment Strategy:</li> <li>Matching terms/concepts with definitions</li> <li>Word Sleuth on terms and concepts</li> <li>Teaching and Learning Strategy:</li> <li>Teacher led discussion on ways in which each individual is unique and special</li> <li>On a flash card have each child write 2 things that make them unique and different, which can then be shared with the class</li> <li>OR</li> <li>In pairs, students list characteristics that are similar / different from the other person.</li> <li>Assessment Strategy:</li> <li>Students select one of the following art forms – song, dance, narrative, spoken word etc. Based on selection, students are placed in groups to prepare a two-minute</li> </ul>	Wellbeing For Children: Identity And Values https://www.youtube.com/watch? v=om3INBWfoxY I am Human: Unique and Imperfect https://youtu.be/wS_HLYCOgR0

# SOCIAL STUDIES

GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
		presentation titled I am Unique and You are Unique Too.	
	Explain the impact of	Teaching and Learning Strategy:	
	heredity and environment on the individual.	Class discussion based on a scenario: two children born at the same time and raised in	Invisible Influence: The Hidden Forces that shape behaviour
		environments result in two different	https://www.youtube.com/watch? v=XxfcaY86jpw
		Assessment Strategy:	
		Write short sentences on how heredity and environment impact their lives today	
	Identify and describe different aspects of oneself.	<b>Teaching and Learning Strategy:</b> Small group discussion on the characteristics that make students different from their sibling or cousin	Use relevant resource materials available (textbooks, etc)
		Assessment Strategy:	
		Write a paragraph on the different aspects of oneself and the effects on one's behaviour.	
		Teacher creates a pictorial quiz of the different aspects of oneself using online tools for students to identify which aspect is depicted.	
		GENERAL OUTCOMES       SCOPE/GENERAL OBJECTIVES         Explain the impact of heredity and environment on the individual.         Identify and describe	GENERAL OUTCOMES         SCOPE/GENERAL OBJECTIVES         INSTRUCTIONAL STRATEGIES           Image: Scope of the state of the individual.         presentation titled I am Unique and You are Unique Too.           Image: Scope of the state state state of the state of the state state of the stat

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
		Develop an appreciation for	Teaching and Learning Strategy:	The Reflection in Me:
		the differences in others.	Game: Guess Who	https://youtu.be/D9OOXCu5XMg
			Students recognise the differences that exist among their peers – physical traits, strengths, skills/talent, behavioural and cognitive traits	
			Assessment Strategy:	
			Given scenarios, students demonstrate through role play respect for the differences in others	
			Write a story about being different and you or others appreciating being different.	

TOPIC	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
Family     u       Relationships     o       in     (3)       0     1       0     1	Develop an understanding of the role and importance (appreciation) of family life in Trinidad and Tobago.	Define the terms and concepts associated with types of families and unions: Nuclear, Extended, Single Parent, Sibling household, Reconstituted /Reconstructed; Common Law, Visiting Relationship and Marriage.	<b>Teaching and Learning Strategy:</b> Create a Word Map for each word. Include the following: definition, picture/drawing, synonyms, antonyms and create my own sentence	Bunji Garlin-One family https://www.youtube.com/watch? v=gW53GxvZQPc
		Identify and describe the different types of families that exist in our society- Nuclear, Extended, Single Parent, Sibling household, Reconstituted /Reconstructed (Blended).	Teaching and Learning Strategy:Use the Frayer Model for each family typeor a graphic for illustrating the types offamiliesFrayer Model Template - Bing imagesAssessment Strategy:Matching image with statements(See page 7 of the Social SciencesCurriculum Mapping AssessmentDocument)	Types of Family: CXC Social Studies https://youtu.be/IE2yfoHNa5s
		Identify and describe the different types of unions that exist in our society (Common Law, Visiting Relationship and Marriage).	<b>Teaching and Learning Strategy:</b> Class discussions on the different types of unions and elicit student's perspectives on unions and marriage	Family Unions: CXC Social Studies https://youtu.be/fPjZK2VnGBQ

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
		Explain the relationships that exist within families	Assessment Strategy: Using real life scenarios students demonstrate their understanding of each type of union Teaching and Learning Strategy: Use of a chart depicting a family tree to	My family trac
			Use of a chart depicting a family tree to establish relationships among members <b>Assessment Strategy:</b> Creation of a structured questionnaire to interview elders in the family about their family history	My family tree https://familyhistorydaily.com/wp -content/uploads/2018/04/Birds- Family-Tree-Printable_Family- History-Daily.pdf
		Construct a personal family tree showing at least three generations	Teaching and Learning Strategy: Create concept maps Illustrations / Diagrams of family trees using various methods Use digital tools or photographs to construct a family tree	How to make a family tree diagram https://venngage.com/blog/family -tree/
			Creation of a structured questionnaire to interview elders in the family. Assessment Strategy: Students answer questions based on a fictitious family tree.	

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
	family – Biological, Economic, Emotional, Socialization, Cultural, Educational. Describe the roles, relationships and	Economic, Emotional, Socialization, Cultural, Educational. Describe the roles,	Teaching and Learning Strategy:Class discussion on the functions of the family using picturesAssessment Strategy: Classify functions of the family based on scenarios or statements presentedTeaching and Learning Strategy:	Functions of the Family https://youtu.be/hD-FKO0dxss Roles, Relationships and
		responsibilities of individual	Class discussion on the roles of individual members of the family Students engage in role play to demonstrate responsibilities associated with each role <b>Assessment Strategy:</b> Role play depicting the roles and responsibilities of individual family members	Responsibilities of Family Members: https://youtu.be/g4lN90jyQR0
		Define relevant terms and concepts (domestic violence, unemployment, poverty, drug use/ abuse, gender roles, generation gap).	<b>Teaching and Learning Strategy:</b> Use terms and concepts appropriately) Create a glossary of terms and definitions	Use the resources provided for this topic to define and explain the relevant terms and concepts
		Explain the factors that cause conflict and affect family relationships	<b>Teaching and Learning Strategy:</b> Use newspaper articles to identify factors that affect families and their effects	Generational Gap: The Evolution of Dance - 1950 to 2019 - By Ricardo Walker's Crew https://youtu.be/p-rSdt0aFuw

ΤΟΡΙΟ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
		<ul> <li>Generational gap (modes of dress, choice of friends etc.)</li> <li>Poverty, unemployment and lack of finances</li> <li>Drug and alcohol abuse</li> <li>Gender roles</li> <li>Responsibility e.g., application to schoolwork</li> <li>Sibling rivalry</li> <li>Explain the effects of selected issues on family life (for example domestic violence, alcohol and drug use and abuse, unemployment).</li> <li>Explore strategies to support families affected by the previously mentioned issues.</li> </ul>	Use of Resource Personnel Research steps in conflict resolution Use of Scenarios depicting different situations to elicit responses from students <b>Assessment Strategy:</b> Group presentation of strategies that can be used to support families affected by the issues identified Role play strategies to resolve conflict situations Students create posters which depict steps in conflict resolution; Use appropriate rubric to assess posters; Classroom display of posters	<ul> <li>-100 Years of Teen Girls Fashion  Glamour</li> <li>https://youtu.be/sORunvibOYY</li> <li>Teen Substance Use and Abuse:</li> <li>https://youtu.be/wQl_4kcE5nw</li> <li>Trinity Smart Resources</li> <li>(NADAPP)</li> <li>Links for episodes</li> <li>Episode 1</li> <li>https://www.youtube.com/watch?</li> <li>v=Uhj0EnT-NVA</li> <li>Episode 2</li> <li>https://www.youtube.com/watch?</li> <li>v=Eu95MN2EZXU</li> <li>Episode 3</li> <li>https://www.youtube.com/watch?</li> <li>v=jyKQ45hJR1A</li> <li>Episode 4</li> <li>https://www.youtube.com/watch?</li> <li>v=Np5s00NCJaM</li> </ul>

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
				Episode 5
				https://www.youtube.com/watch? v=-ZoZLQ31iJg
				National Drug Council Website http://www.nationalsecurity.gov.tt /ndc/
				Ministry of Health
				http://www.health.gov.tt/
				Child abuse, gender, HIV/AIDS
				https://sta.uwi.edu/igds/breakthesi lence/documents/BTS_Toolkit_co mplete_AS13JUNE2017.pdf
				Gender based violence in Trinidad and Tobago
				http://opm- gca.gov.tt/LinkClick.aspx?filetick et=YISA4T R6w%3D&portalid=0
				(pgs 25-67)

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
		Appreciate and show respect for those in authority and senior members of the family.	Teaching and Learning Strategy: Use of student experiences with grandparents and other elderly persons in the home Use of news stories on students' interaction with police officers, teachers and administrators, school safety officers	Appreciation for the Elders in society- Infants-Activity-Pack- Week-5-Term-2.pdf (windows.net)
Key historical events in the development of Trinidad and Tobago up to 1976. -Pre-Columbian period	Describe the key historical events in the development of Trinidad and Tobago up to 1976 within a chronological framework.	Define and use correctly the following terms and concepts: Colonialism, Colony, Slavery Indentureship, Self- government, Independence, Republicanism.	<b>Teaching and Learning Strategy:</b> Use of ABC Brainstorm Strategy to identify terms and concepts (See Social Studies Strategies Document Part 1)	The Road to Nationhood: Crown Colony Government to Republicanism https://www.natt.gov.tt/sites/defau lt/files/pdfs/the-road-to- nationhood.pdf
<ul> <li>-Arrival of Columbus,</li> <li>- Enslavement of African persons</li> <li>-Indentureship</li> <li>-Federal Union of Trinidad and Tobago</li> <li>-Self- government</li> </ul>		Outline the major historical events from the arrival of Columbus to Republicanism (including periods or dates)	<ul> <li>Teaching and Learning Strategy: Use of videos with related questions followed by class discussion.</li> <li>Assessment Strategy: Create a timeline from the Pre-Columbian period to Republicanism</li> </ul>	Trinidad and Tobago Independence in 1962 https://www.youtube.com/watch? v=GVlcBLX6UHU Republic Day- Infant-Activity- Pack-Week-1-V2.pdf (windows.net)/ Infants-Activity- Pack-Week-3-Term-1-2021- 2022.pdf (windows.net)

ТОРІС	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
-Independence -Republicanism				For the People: The Creation of a Republic
Tepuoneumsin				https://www.youtube.com/watch? v=jtksHwX4tjs
				Milestones to Parliamentary Democracy in Trinidad and Tobago - 1498 to 1797
				https://www.youtube.com/watch? v=jgTvdPDW36s
				Independence Day 2022 https://youtu.be/mxxgABnuvJQ
				TTT Live: Profile of a President: Sir Ellis Clarke https://www.youtube.com/watch? v=15CjenGSFkg

TOPIC	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
National Symbols/ Emblems	Develop a sense of loyalty and national pride by recognizing the significance of national emblems/ symbols.	Name and identify the National Symbols/Emblems (National Flag, National Anthem, National Pledge, National Birds, National Flower, National Instrument)	<ul> <li>Teaching and Learning Strategy:</li> <li>Create a picture board to display the national symbols of Nationhood</li> <li>Display an accurate depiction of the National Flag</li> <li>Class Discussion on the elements of the Coat of Arms</li> <li>Create cut-outs of elements of the Coat of Arms and have students reproduce model</li> <li>Source resource personnel or students within the school to serenade the school body by playing an appropriate piece using the National Instrument</li> <li>Assessment Strategy:</li> <li>Group presentation: Each group assigned a national symbol, inclusive of National Instrument the history of the symbol, its elements, creator and where it can be found. Include segment for personal reflection on appreciation and value of the selected national symbol/emblem</li> </ul>	National Identity Guidelines: https://natt.gov.tt/sites/default/file s/pdfs/National%20Identity%20G uidelines_FINALReduced%20Siz e.pdf Independence brochure (National Archives of Trinidad and Tobago) https://www.natt.gov.tt/sites/defau lt/files/images/FINAL%20Indepe ndence%20Brochure%20REV%2 021%20Aug%202018Optimized Min%20%281%29.pdf National Instrument https://nationalarchivestt.wordpre ss.com/2016/01/22/vagabonds- hooligans-and-badjohns-the- violent-past-of-the-steel-bands/ https://www.nalis.gov.tt/Resource s/Subject-Guide/Steelband National Symbols https://www.nalis.gov.tt/Resource s/Subject-Guide/National- Symbols#tabposition_25662

TOPIC	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
		Recognise the significance	Teaching and Learning Strategy:	National Awards
		of the National Awards	Identify persons from the community who can receive a National Award and give reasons why	https://otp.tt/trinidad-and- tobago/national-awards/
			Identify other types of awards that can be given to citizens of Trinidad and Tobago	https://www.nalis.gov.tt/Resource s/Subject-Guide/National-Awards
Government (Structure and Function; Rights,	Understand the structure and function of Government in Trinidad and Tobago.	State the reasons for having a government.	<b>Teaching and Learning Strategy:</b> Use of student experiences elicited from teacher questioning	Purpose of Government (with guidance) https://www.youtube.com/watch? v=IAnjKNUQERY (0.53-2.23 mins)
Freedoms and				
Responsibilities		Describe the electoral system in Trinidad and	Teaching and Learning Strategy:	
of citizens and Electoral		Tobago (First past the post	Use of resources from the Elections and Boundaries Commission on the electoral	The Electoral system in Trinidad and Tobago.
System in		system).	process	https://ebctt.com/electoral-
Trinidad and			Review election results in Trinidad and	process/
Tobago)			Tobago to identify the characteristics of the system	Preliminary Election Results 2020
			Simulate an election to explain First past the post system	https://ebctt.com/wp- content/uploads/The-Preliminary-

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
			Assessment Strategy: Create fictitious election results from a named country and students respond to questions on the results	Results-for-the-2020- Parliamentary-Elections.pdf
		Describe the structure and function of government in Trinidad and Tobago.	<b>Teaching and Learning Strategy:</b> Graphic illustration of the three arms of Government.	See resource at: https://www.nalis.gov.tt/Resource s/Subject-Guide/Government- Structure/Central-Government
		Define the term public institution Give examples of public institution in Trinidad and Tobago (Government ministries, departments and agencies, judiciary and statutory organisations).	<b>Teaching and Learning Strategy:</b> Classify public institutions Identify examples nationally and within the school community	Use the resources provided for this topic on public institutions to identify, define and explain the terms, concepts and examples
		Familiarise themselves with the role and function of public institutions in Trinidad and Tobago	<b>Teaching and Learning Strategy:</b> Group work – Each group is assigned a public institution. Group members interview someone employed in the selected institution and present to class	Governance Institutions of Trinidad and Tobago https://www.commonwealthgover nance.org/countries/americas/trini dad_and_tobago/governance- institutions/

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
				Office of the Ombudsman of Trinidad and Tobago
				http://www.ombudsman.gov.tt/sit epages/default.aspx?id=13
				Consumer Affairs Division, Ministry of Trade and Industry
				https://tradeind.gov.tt/consumer- affairs-division/
				Police Complaints Authority
				https://www.pca.org.tt/
		Be aware of those public institutions from which they can seek redress (Ombudsman, Financial Services Ombudsman,	<b>Teaching and Learning Strategy:</b> Identify concerns people may face when accessing services	Use the resources provided for this topic on public institutions to expand on this objective
		Police Complaints Authority, Consumer Affairs Division).	Conduct research on the public institutions through which persons can seek redress	
			Assessment Strategy-	
			Students are presented with scenarios and asked to select the appropriate public institutions from which to seek redress	
			Write a letter of complaint to the relevant public institution seeking redress	

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
		Describe the ways	Teaching and Learning Strategy:	
		government earns revenue (for example, taxes, trade).	Use a newspaper headline advertising budget day	Budget Statement 2023- Subsection Estimates of revenue and Expenditure pgs 42-51
		Describe the ways in which government spends revenue (expenditure) (for example, building of infrastructure).	Students research and make a list of the different ways government earns revenue	https://www.finance.gov.tt/wp- content/uploads/2022/09/Budget- Statement-2023-E-Version.pdf
			Teaching and Learning Strategy:	
			Create an idea builder (Key ideas, facts, sample sentence, example, non-example, and definition)	Budget Statement 2023- Subsection Estimates of revenue and Expenditure pgs 42-51
			Use images of different aspects of society (schools, sports, roads, notice of salary payments) as examples for students to brainstorm other ways on which government spends revenue.	https://www.finance.gov.tt/wp- content/uploads/2022/09/Budget- Statement-2023-E-Version.pdf
			Ask students to research and list the different Ministries in Trinidad and Tobago to identify government expenditure.	

TOPIC	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
		Define the term Level	Assessment Strategy: The Minister of Education has planned to visit your school as part of her school tours. Prepare a list of items to present to the Minister for which money should be allocated to improve education for young persons at your school	Minister of Dural Davidser of
		Define the term Local Government Describe the functions of Local Government and the Tobago House of Assembly (THA) Differentiate amongst Central and Local Government and the Tobago House of Assembly (THA)	Teaching and Learning Strategy: Research the functions of Central, Local Government and the THA Local Government Assessment Strategy: Given examples students can match the functions with the three (3) bodies	Ministry of Rural Development and Local Government: What we do https://rdlg.gov.tt/our- ministry/what-we-do/ Ministry of Rural Development and Local Government: Our history https://rdlg.gov.tt/our- ministry/our-history/ THA-About the Assembly https://www.tha.gov.tt/about-the- assembly/ Infants-Activity-Pack-Week-4- Term-2.pdf (windows.net)

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
		<ul> <li>Explain the meaning of the term Human Rights.</li> <li>Describe the rights and freedoms of citizens of Trinidad and Tobago, including the Rights of the Child.</li> <li>Describe the civic rights and responsibilities of citizens of Trinidad and Tobago.</li> </ul>	<ul> <li>Teaching and Learning Strategy:</li> <li>Use of the Preamble of the Constitution of Trinidad and Tobago which outlines the rights and freedoms of citizens</li> <li>Review of the Conventions of the Rights of the Child to identify and discuss these rights</li> <li>Assessment Strategy: Have students create a visual piece illustrating one Right of the Child</li> </ul>	Constitution of the Republic of Trinidad and Tobago http://laws.gov.tt/pdf/Constitution .pdf Convention of the Rights of the Child https://www.unicef.org/child- rights-convention/convention- text-childrens-version We all have Rights: UNICEF https://www.youtube.com/watch? v=6F7ie1Z07aM

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
Our Physical Resources	Develop an understanding and	Define the terms renewable and non-renewable resources; Primary,	<b>Teaching and Learning Strategy:</b> Word/picture wall of terms and concepts	Types of Energy for Kids- Renewable and Non Renewable Energies:
	appreciation of the major	Secondary and Tertiary industries; Import and		https://youtu.be/w16-Uems2Qo
	physical resources that contribute to	Export		Difference between Renewable and Non-Renewable Resources
	the economy of			https://youtu.be/PLBK1ux5b7U
	Trinidad and Tobago			Geo for CXC
	100450			https://geoforcxc.com/economic- activities/
				Importance of Water   Science For Kids   All Important Water   Periwinkle   Vid #10
				https://youtu.be/c-3KCzxEgek
		Identify physical resources of Trinidad and Tobago	<b>Teaching and Learning Strategy:</b> Use a Picture List to identify the physical resources and include an image of each resource	What are the major Natural Resources of Trinidad and Tobago?
		Locate areas where our physical resources can be found (Petroleum, Natural Gas, Asphalt, Gypsum, Limestone, Sand and Gravel, Rivers, Forests)	Map work: On a blank map of Trinidad and Tobago use an appropriate key to locate the relevant physical resources	https://www.worldatlas.com/articl es/what-are-the-major-natural- resources-of-trinidad-and- tobago.html Location of some of our natural/physical resources

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
				https://www.energy.gov.tt/our- business/aggregates/economic- minerals/
		Identify types of industries in Trinidad and Tobago.	<b>Teaching and Learning Strategy:</b> Review products used within their families	The major industries of Trinidad and Tobago
			to ascertain the types of industries existing in Trinidad and Tobago	https://www.worldatlas.com/articl es/the-major-industries-in- trinidad-and-tobago.html
				The 7 sub industries in Trinidad and Tobago's Manufacturing industry
				https://www.investt.co.tt/industrie s-and- opportunities/Electricity%20Inten sive%20Manufacturing/
		Given examples, classify Primary, Secondary and Tertiary Industries in Trinidad and Tobago.	<b>Teaching and Learning Strategy:</b> Use the Frayer Model to illustrate the terms and concepts previously mentioned	How to use the Frayer Model – TeachLikeThis https://youtu.be/AdjN09VouaU
			Assessment Strategy: Worksheet to classify types of industries	What is the difference between Primary, Secondary and Tertiary Sectors of Industry?
				https://www.youtube.com/watch? v=eWpdcgOwVtg

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
		Name the major imports and exports of Trinidad and	Teaching and Learning Strategy: Collection of photographs of products	Jobs and their classification: Primary, Secondary & Tertiary sector   Educational Videos for Kids https://youtu.be/GuzmULmcU0E Business Sectors https://www.youtube.com/watch? v=8KDxAWfMwf4 Major imports and exports Trinidad and Tobago (2020)
		Tobago.	imported and exported	https://oec.world/en/profile/countr y/tto
		State the benefits of Trinidad and Tobago's physical resources to its economy.	<b>Teaching and Learning Strategy:</b> Refer to pages 24 to 41 of the Social Studies Strategies Document (Part 2) to highlight benefits of Tourism to the economy of Trinidad and Tobago	Main Drivers of Trinidad and Tobago's Economy https://www.investopedia.com/arti cles/investing/022415/main- drivers-trinidad-and-tobagos- economy.asp

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
			Assessment Strategy: For a named physical resource, list two benefits of our physical resources to the economy of Trinidad and Tobago	What are the major natural resources of Trinidad And Tobago? https://www.worldatlas.com/articl es/what-are-the-major-natural- resources-of-trinidad-and- tobago.html
Water as a physical resource		Define the terms, 'pollution', 'marine', 'biodiversity'.	<b>Teaching and Learning Strategy:</b> Students develop definitions based on the review of pictures/images showing the relevant terms and concepts	Captain Planet - Captain Planet Defeats Captain Pollution [Music & Sequence Appreciation] https://youtu.be/XLeLQy3aiSM
				What is Water Pollution? https://www.youtube.com/watch? v=IW8DdcS7xPA
				What is Biodiversity? https://www.youtube.com/watch? v=_bk2nnDI68g
				Introduction to Biodiversity (pages 23-24)

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
				https://www.planning.gov.tt/sites/ default/files/Green%20Days%20b y%20the%20EPPD%20Activity% 20Series%20%28Secondary%20S chool%20FINAL%20May%2020 20%29_compressed-2.pdf
		Outline the different uses of water	<b>Teaching and Learning Strategy:</b> Use of students' experiences	Uses of Water https://www.youtube.com/watch? v=D2s9cB1pzZ8
			Using pictures or drawings show how water is important in the student's everyday life	Make your own word wall
			Create a Word Wall of important terms and concepts or use of a Graphic Organiser to identify domestic, agriculture and other uses of water (see pages 19 and 20 of the Social Studies Strategies Document (Part 2)	https://www.youtube.com/watch? v=xass9ONzZxQ
			Assessment Strategy:	
			Create a poster/collage showing the different uses of water	
		Discuss ways to conserve water.	<b>Teaching and Learning Strategy:</b> Discussion on the importance of water conservation based on the video titled Why I Conserve <u>https://youtu.be/h4NwK_Xf7yE</u>	Water Conservation Activities https://wateruseitwisely.com/kids- teachers/fun-activities/

TOPIC	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
		Explain why water must be conserved.	(See page 21 of the Social Studies Strategies Document (Part 2)	Water - Water Use It Wisely https://wateruseitwisely.com/100- ways-to-conservewater
			Make a commitment/personal pledge identifying ways students may conserve water	
			Assessment Strategy:	
			Present the following scenario to students:	
			There is a leak in the community for over a month. Write a letter of complaint to the WASA outlining the issue of water wastage in your community and the need to address the situation	
			Create a video on the importance of conserving water	
		Recognize the importance of water as a resource	<b>Teaching and Learning Strategy:</b> Organize a Water Appreciation Day- Have students make presentations to the assembly or make billboards. Place	Appreciation for what we have: Water https://www.youtube.com/watch? v=WpBdDRqRyX0

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
			billboards around the school grounds advocating the importance of water	
		Discuss causes and effects of water pollution	Teaching and Learning Strategy: Create Discussion Web or Graphic Organiser to identify causes and effects of water pollution by viewing the following video, <u>https://www.youtube.com/watch?v=Wv1ur</u> <u>TMSXak</u> (See pages 22 and 23 of the Social Studies Strategies Document (Part 2)	How does water pollution affect us? https://www.activesustainability.c om/water/causes-consequences- water- pollution/?_adin=02021864894 Geo for CXC: Water Pollution https://geoforcxc.com/pollution/w ater-pollution/
		Explain the importance of the water bodies (rivers and seas) in Trinidad and Tobago.	<b>Teaching and Learning Strategy:</b> Identify on a blank map of Trinidad and Tobago areas of activities associated with water - agriculture, recreation, employment (tourism, transport, fishing) and trade Valuing Water- <u>Infants-Activity-Pack-</u> <u>Week-11-Term-2.pubpdf (windows.net)</u> page 1 &4	Relationship with ocean vital part of Trinidad and Tobago culture https://news.un.org/en/story/2017/ 06/558952-feature-relationship- ocean-vital-part-trinidad-and- tobago-culture Rights recognition for the Caroni River in Trinidad and Tobago https://www.earthlawcenter.org/bl og-entries/2019/1/rights-

TOPIC	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
				recognition-for-the-caroni-river- in-trinidad-and-tobago
		Identify how actions and attitudes of humans affect marine biodiversity	Assessment Strategy: Create a poster showing the effects of human activity on the marine biodiversity of the Caribbean Sea.	How do humans affect biodiversity https://royalsociety.org/topics- policy/projects/biodiversity/huma n-impact-on-biodiversity/ Human impact on Biodiversity https://www.youtube.com/watch? v=wXJiHr8jWBs
		Demonstrate ways of advocating for the conservation of our water bodies.	Assessment Strategy: Students can create video/vlog/flyer, write to MP to explain the for taking care of a water body in their community	http://planning.gov.tt/content/we- all-protect-our-species-institute- marine-affairs

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS	
Cultural Heritage and	Develop an appreciation of	Define the terms, 'Heritage', 'Cultural Heritage',	<b>Teaching and Learning Strategy:</b> Create a word wall on the relevant terms	What is heritage? https://www.youtube.com/watch?	
Traditions.	our Cultural Heritage and	'Conservation', 'Preservation'.	and concepts	v=nf8DyjCz8UE	
The population and their origins	the need to conserve and			Glossary of terms-see pgs 50-51	
Festivals and Celebrations	preserve	rve		https://edoc.coe.int/en/cultural- heritage/6551-cultural-heritage- and-cultural-diversity-lessons-a-	
Rites and Rituals				handbook-for-teacher.html	
Dates and Events		Describe the characteristics	Teaching and Learning Strategy:		
		of our cultural heritage.	Use of que	Use of questioning to elicit responses based on students' knowledge and experiences	What is cultural heritage? https://www.heritageforpeace.org/ heritage-for-peace/what-is-
			Invite resource persons to provide information on groups which may not be represented in the class (Syrian Lebanese, Chinese)	cultural-heritage/	
			Conduct a field trip to a historical site <b>Assessment Strategy:</b>		
			Write a report on their field trip		

TOPIC	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
		Describe the contributions by the various settlers to Trinidad and Tobago (First Peoples of Trinidad and Tobago (Tainos and Kalinagos), Europeans, Africans, Asians (Chinese and East Indians) and Syrians) to: languages, religions, traditions (religious practices rites and rituals), ethnicities, festivals (cuisine, music, dress), historical sites/relics/names of places and other traditions (folklore and art and craft).	Teaching and Learning Strategy: Group research and presentation using various forms of media on the contributions of the various settlers	The First Peoples Presence in Trinidad and Tobago. NALIS 2020 https://www.nalis.gov.tt/Resource s/Exhibitions-and-Photo- Galleries/ID/26/FIRST- PEOPLES#prettyPhoto The Chinese in Trinidad and Tobago: https://youtu.be/UPa31Jep5N4 The Experience of Indian Indenture in Trinidad: Arrival and Settlement https://guyaneseonline.net/2012/0 3/16/the-east-indian-presence-in- trinidad-and-tobago-1845-1917- six-videos/ Remembering the Past Indian Arrival Day in Trinidad and Tobago https://www.youtube.com/watch? v=QPObDVqdBtQ

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
				Sewdass Sadhu Temple in the Sea https://youtu.be/ybntQ_xMewI
				Historical Sites – Our African heritage https://natt.gov.tt/sites/default/file s/pdfs/
				Our-African-Heritage.pdf African Heritage – Food https://www.nalis.gov.tt/Resource s/Subject-Guide/Emancipation- Day#tabposition_247612
				African Heritage – Religion https://natt.gov.tt/sites/default/file s/pdfs/Our-African-Heritage.pdf National Heritage Sites http://nationaltrust.tt/heritage- sites/
		Explain the significance of: Religious festivals, National festivals (Carnival, Emancipation Day, First Peoples Day, Indian Arrival Day, Tobago Heritage	<b>Teaching and Learning Strategy:</b> Student research of the different national and religious festivals and celebrations	Emancipation Day https://www.nalis.gov.tt/Resource s/Subject-Guide/Emancipation- Day

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
		Festival, Celebration of religious festivals e.g., Divali, Phagwa, Christmas, Easter, Eid- ul-Fitr, Shouter Baptist Liberation Day		First People- Infants-Activity- Pack-Week-5-V2.pdf (windows.net)
				Divali/Ramleela- Infants- Activity-Pack-Week-9.pubpdf (windows.net)/ Infant-Activity- Pack-Week-9-2ndDraft.pdf (windows.net)
				Christmas- Infants-Activity-Pack- Week-11-V3.pubpdf (windows.net)
				Eid Mubarak-FINAL-Infants- Activity-Pack-Week-5-Term- 3.pdf (windows.net)
				Indian Arrival Day- Infants- Activity-Pack-Week-8-Term-3- FINAL.pdf (windows.net)
				Carnival- Infant-activity-week-8- Term-1pdf.pdf (windows.net)

TOPIC	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
				Shouter Baptist Liberation Day- Infant-activity-week-13.pdf (windows.net)
				Phagwa- Infant-activity-week- 13.pdf (windows.net)
		Discuss safety precautions to	Teaching and Learning Strategy:	Trinidad and Tobago Electricity
		be taken during celebrations	Class Discussion on possible safety issues associated with festivals	Commission: Safety Tips for the Christmas season
			Assessment Strategy:	https://www.facebook.com/watch/ ?v=1222887135320708
		Examine the fusion of cultural interactions to create new cultural forms which are present and unique to Trinidad and Tobago (Soca, Chutney, Rapso, Soca parang)	Create a flyer highlighting safety precautions to be observed during a named festival	Safety in the home: Trinidad and Tobago Fire Servicehttps://www.facebook.com /watch/?v=340549927164421
				Using fireworks safely-Trinidad and Tobago Fire Service
				https://www.facebook.com/watch/ ?v=720694365194547
			Teaching and Learning Strategy:	Music of Trinidad and Tobago
			View/listen to an interview with/on Machel Montano, Ras Shorty I, Ricki Jai, Crazy or any artiste on these local genres	https://www.cs.mcgill.ca/~rwest/ wikispeedia/wpcd/wp/m/Music_o f_Trinidad_and_Tobago.htm Remembering Brother Resistance

TOPIC	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
				https://www.youtube.com/watch? v=whcZ2AcIshE
				The Chutney Phenomenon
				https://www.caribbean- beat.com/issue-22/chutney- phenomenon#axzz7omutQNIO
				Chutney Soca Succession
				https://www.caribbean- beat.com/issue-123/chutney-soca- succession#axzz7omutQNIO
				Parang
				https://www.nalis.gov.tt/Resource s/Subject-Guide/Parang
				https://nationaltrust.tt/parang- heritage-connection/
		Explain reasons why it is	Teaching and Learning Strategy:Use images of historical sites andlandforms and identify reasons for theirconservation and preservationInterview relatives to identify traditionsof the past, example, folklore, Patoislanguage	Heritage sites
		important to conserve and preserve our cultural heritage.		https://nationaltrust.tt/heritage- sites/
				Information sheet on heritage
				https://en.unesco.org/sites/default/ files/info_sheet_heritage.pdf

TOPIC	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
			Assessment Strategy: Students create a poster and/or slogan on the need to preserve our heritage	Preserving culture and heritage through generations https://amf.net.au/library/uploads/ files/Diversity_Matters_Forum_o verview_and_theme_summaries_ 2014.pdf
		Evaluate means of conserving and preserving our cultural heritage.	Assessment Strategy: Develop a brochure to highlight ways of conserving and preserving our Cultural Heritage. Students create a name for the brochure and feature photos of places that we should preserve	National Trust of Trinidad and Tobago https://nationaltrust.tt/reflections- on-heritage-at-60/ https://nationaltrust.tt/home/wp- content/uploads/2020/03/FREE- PRINTABLE- WORKSHEETS.pdf

TOPIC	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
Man Made and Built Heritage		Define relevant terms and concepts (Man Made Heritage - Built Environment - Built Heritage), sustainable, tourist, tourism	<b>Teaching and Learning Strategy:</b> Create a glossary with the terms and their meanings	
		Name and describe the features in the environment that are part of our man- made or built heritage.	<b>Teaching and Learning Strategy:</b> Construct a worksheet to elicit the extent of student knowledge of heritage, cultural heritage and built heritage	The National Trust of Trinidad and Tobago https://nationaltrust.tt/
		<ul> <li>Historical Sites such as the Magnificent Seven and the Red House</li> <li>Relics such as Fort George Tobago</li> <li>Places of worship such as</li> </ul>	Use of worksheets from the National Trust of Trinidad and Tobago on heritage Conduct of a field trip to any heritage	https://nationaltrust.tt/home/wp- content/uploads/2020/03/FREE- PRINTABLE- WORKSHEETS.pdf
		<ul> <li>Praces of worship such as the Temple in the Sea in Waterloo, Bait-ul-Hamid Mosque (in Icacos) and the La Divina Pastora R.C. Church in Siparia</li> <li>Features of the manmade environment as it relates to our heritage (Civic Building such as the National Academy of the</li> </ul>	building or historical site Assessment Strategy- After the field trip students can work in pairs to develop strategies/activities to increase visitors to the site	

ТОРІС	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
Budgeting and Money Management	Promote wise decision making in the management of personal finances and the importance of a national budget.	Performing Arts and Queens Hall) Value the significance of our built or manmade Heritage. Define the terms 'income', 'revenue', 'expenditure', 'budget', 'surplus and deficit budget', 'delayed gratification', 'savings', 'savings plan'. Examine the relationship between income and budgeting.	Teaching and Learning Strategy:         Graphic organiser on terms and concepts         Teaching and Learning Strategy:         Using monopoly money and a list of         expenditure have students illustrate how         money is spent and why	National Financial Literacy Programme-Money World Game https://moneyworld.nflp.org.tt/ SAVING, SPENDING, SHARING, BUDGET A Financial Literacy Musical Adventure for Planning Your Money https://youtu.be/nLPZzUp3Ues
		Differentiate between needs and wants.	Teaching and Learning Strategy: Generate a list to identify the must have items (needs) and the ones that the student can do without(wants) and illustrate using a graphic organizer Assessment Strategy: Students role play the difference between needs and wants	Difference between Needs and Wants https://youtu.be/9ZxpWI1rDTE

TOPIC	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
		Discuss the benefits of budgeting.	<b>Teaching and Learning Strategy:</b> Group presentation on the benefits of budgeting and its importance in money management	Budgeting for kids https://youtu.be/WRcgRimBac8
		Develop a simple budget.	Teaching and Learning Strategy:Create a journal or calendar to help plan abudget or to keep a record of spendingMake adjustments to a simple budget in response to simple posed challenges, opportunities or unplanned simple expendituresAssessment Strategy:	CashVille Kidz Episode 23: SMART Budgeting https://youtu.be/58EuubFG9-c The Coffee Shop Game https://www.hoodamath.com/gam es/coffeeshopgame.html
			Group Work to develop a budget for a class party/ class outing/field trip/celebrating and commemorating a national festival or international day	
		Describe ways of saving money	<b>Teaching and Learning Strategy:</b> Create concept map to distinguish between formal and informal ways of saving money (see page 47 of the Social Studies Strategies Document (Part 2)	A Lesson on Responsible Saving for Kids https://youtu.be/JkCmIxraWlM

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
			Invite persons from the National Financial Literacy Programme of Trinidad and Tobago to engage students on financial literacy	
			Have students set a saving goal to be achieved in the short to medium term	
			Assessment Strategy: Present a detailed scenario to students highlighting the improper use of money	
			Students suggest ways money can be saved based on situations presented in the scenario	
		Identify the challenges of saving money.	<b>Teaching and Learning Strategy:</b> Brainstorming activity to determine the challenges of saving	Being Responsible With Money - Good Habits for Kids   Ask Coley Tips   Educational Videos by Mocomi
			Teacher created scenarios to demonstrate the challenges of saving	https://youtu.be/IHDVnQg4T6c

T	OPIC	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
			Construct a savings plan to	Assessment Strategy:	Social Studies Strategies
			purchase an item.	Construct a savings plan to purchase an item in the short to medium term	Document (Part 2) page 50
			Discuss the benefits of	Teaching and Learning Strategy:	Trinidad and Tobago Securities
			saving.	Students view the video on savings from the Trinidad and Tobago Securities and	and Exchange Commission- Savings
				Exchange Commission to understand the importance of savings	https://youtu.be/MNQqJ0KGVRA
				Use of 321 strategy to summarise their ideas	Social Studies Strategies Document (Part 2) pages 48 to 49
				Using post-it, have each student write a benefit of saving and place it on the board, the teacher can then group the answers and discuss with the class	321 Strategy
					The 3-2-1 lesson strategy for any grade and any subject!!!
				Assessment Strategy:	https://youtu.be/v4y0tUX1pOo
				Create and share a hashtag to represent the importance of savings	
				Teacher created Quiz on goal setting and savings	

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
The Geography	Know and	<u>Map Skills</u>	Teaching and Learning Strategy:	Features of a Map
of Trinidad and Tobago	develop an appreciation for the physical and man-made environment of	Identify different types of maps- Physical, Political and Land use.	Use the atlas or any other resource available to illustrate different types of maps and their use	https://www.kiddle.co/s.php?q=fe atures+of+a+map#gsc.tab=0&gsc. q=features%20of%20a%20map& gsc.page=1
	Trinidad and		Assessment Strategy:	
	Tobago and the Caribbean and apply relevant map skills.		Students are presented with different types of maps and are asked to classify them	What is a Map? https://www.kiddle.co/s.php?q=w hat+is+a+map+key#gsc.tab=0&gs c.q=what%20is%20a%20map%2 0key&gsc.page=1
				Map Reading https://kids.britannica.com/kids/ar ticle/map-and-globe/353425
		Identify the elements of a	Teaching and Learning Strategy:	Map Skills: How to read a map
		map (border, legend or key, arrow showing north, scale, title).	Use atlas to identify basic map features	https://emapshop.com/wp- content/uploads/2016/08/E3.jpg
			Students create of a fictitious country and include all elements of the map accurately	Using a Map Scale Song (Line it Up) Fall Out Boy Parody
			Assessment Strategy:	https://youtu.be/Xd8gJm5c4CY
			Using a blank map, have students insert the 5 key elements of a map	

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
		Read and interpret basic conventional symbols on a given map.	<b>Teaching and Learning Strategy:</b> Define the concept map symbol	Geo for CXC: Reading and Interpreting Conventional Symbols
			Given a map, students create a suitable legend or key using standard conventional symbols	https://geoforcxc.com/map- skills/map-symbols/
			Assessment Strategy:	
			Complete a worksheet or use oral questioning for students to identify symbols on a given map and state what they represent	
		Measure the distance	Teaching and Learning Strategy:	Geography Map Skills: Scale and
		between two places on a map using a linear scale.	Using a basic map with places identified as	Distance
		map using a mear scale.	points, have students practice measuring distance using strips of paper and apply the rule "from" and "to"	https://youtu.be/K3aM0H7j_Jg
			Assessment Strategy:	
			Use a worksheet to test the application of the steps in measuring distance	
		Locate places on a map	Teaching and Learning Strategy:	Cardinal Direction
		using Compass Direction (8 points) and 4 figure grid references	Skill development through the application of the steps in locating places and giving directions	https://kids.kiddle.co/Cardinal_dir ection

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
			Assessment Strategy: Treasure Hunt: Use of the Compass Direction (8 points) and four figure grid reference to locate objects on a worksheet	Four figure grid references https://youtu.be/c-3KCzxEgek Geo For CXC: Four Figure Grid Reference https://geoforcxc.com/map- skills/4-figure-grid-reference/
		Using the Compass Direction (8 points), give the direction of Caribbean territories in relation to Trinidad and Tobago and vice versa.	<b>Teaching and Learning Strategy:</b> In class activity: Each child creates a small eight-point compass for the teacher to demonstrate its importance in determining the direction of places in relation to others Use of practice sheets for skill development	Compass Directions https://youtu.be/Cu4XY9eHRsU
		Landforms and Land-use Define Physical Environment, Man Made Environment, Land Use, Settlement (Rural and	<b>Teaching and Learning Strategy:</b> Use Google Maps, atlas and/or Ordinance Survey Maps and photographs to identify aspects of each term and concept and provide definitions	BBC Bitesize: What are human and physical features? https://www.bbc.co.uk/bitesize/to pics/zqj3n9q/articles/zr8q7nb

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
		Urban) and Physical/Natural Resources. Name and locate the main landforms of Trinidad and Tobago on a map.	<b>Teaching and Learning Strategy:</b> On a Map of Trinidad and Tobago accurately name and locate the major physical features (see page 5 of the Social	Places of Interest in Trinidad and Tobago places of interest in trinidad and tobago - Google Maps
			Studies Strategies Document (Part 2) Assessment Strategy: Create a map showing the how the location of major landforms in Trinidad and Tobago	
		Describe with, examples, basic landforms: mountains, ranges, hills valleys, plains, peninsulas, swamps, river.	Teaching and Learning Strategy: Make 2D or 3D models of basic landforms (see pages 7 to 10 of the Social Studies Strategies Document (Part 2) Assessment Strategy:	Exploring Landforms and Bodies of Water for Kids - FreeSchool https://youtu.be/BsqKTJtK_vw
			Create a multimedia presentation - one slide can be made for each landform or feature. Each slide should have the term, the student's definition and the image	
		Develop an appreciation for the physical environment of Trinidad and Tobago.	<b>Teaching and Learning Strategy:</b> Create a brochure Identifying a specific landform, for example, The San Fernando	EMA: Beauty of Nature https://youtu.be/lyZS_5qgNgU

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
			<ul> <li>Hill and explain how it can be appreciated by persons (see page 11 of the Social Studies Strategies Document (Part 2)</li> <li>Assessment Strategy:</li> <li>Based on given descriptions, students identify places of interest to populate a schedule for a Know Your Country Tour</li> </ul>	National Trust: Caroni Swamp/Bird Sanctuary — National Trust of Trinidad and Tobago
		Discuss the types of land use: housing, agriculture, recreation, industry.	<b>Teaching and Learning Strategy:</b> Identify examples of each type of land use within the school's community	Types of land use https://youtu.be/vbP-o6-ETuA
		Differentiate between rural and urban settlements.	Teaching and Learning Strategy: Use of aerial photographs and Google Earth to observe differences between rural and urban settlements Class discussion to elicit from students observed differences between urban and rural settlements near to the school	Types of Communities for Kids   Urban, Suburban and Rural Communities   Social Studies for Kids https://youtu.be/KMZF1Xwcms4
			Assessment Strategy: Using the information provided on rural and urban areas, students produce a reflective piece on where they prefer to live and why	
		Name major cities, /towns and villages of Trinidad and Tobago.	<b>Teaching and Learning Strategy:</b> Locate on a Map of Trinidad and Tobago major cities, /towns and villages	NALIS: Towns and Villages

TOPIC	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
				https://www.nalis.gov.tt/Resource s/Subject-Guide/Towns-and- Villages
		Compare the features of a	Teaching and Learning Strategy:	Google Earth: Port of Spain
		town with those of a village.	Using pictures/video of towns and villages have student identify the similarities and differences	https://earth.google.com/web/sear ch/Port+of+Spain/@10.66850956,
				61.51390425,28.89354115a,1828 4.16852853d,35y,0h,0t,0r/data=C ngaThJICiUweDhjMzYwN2RIM Tc0YmMzNDk6MHhkZGRIZjY1 MzE2MGQ0Mjg1GcvQHWkVUi VAIWq8dJMYwU7AKg1Qb3J0I G9mIFNwYWluGAIgASImCiQJ TaVlyZM8Q0AR16uHuVtNE0A ZN09u9Tt9ZUAhmgMgvzsuQkA
				Google Earth: Cedros
				https://earth.google.com/web/sear ch/Cedros/@10.10195511,- 61.82849323,25.65701571a,1830 4.51539868d,35y,0h,0t,0r/data=C nEaRxJBCiUweDhjMzVhNjQ4M zM5Yjc1NTU6MHhmYzkwNjY0 NTU5YzhiNGUyGYO2QZL- OyRAIfN0rigl507AKgZDZWRy

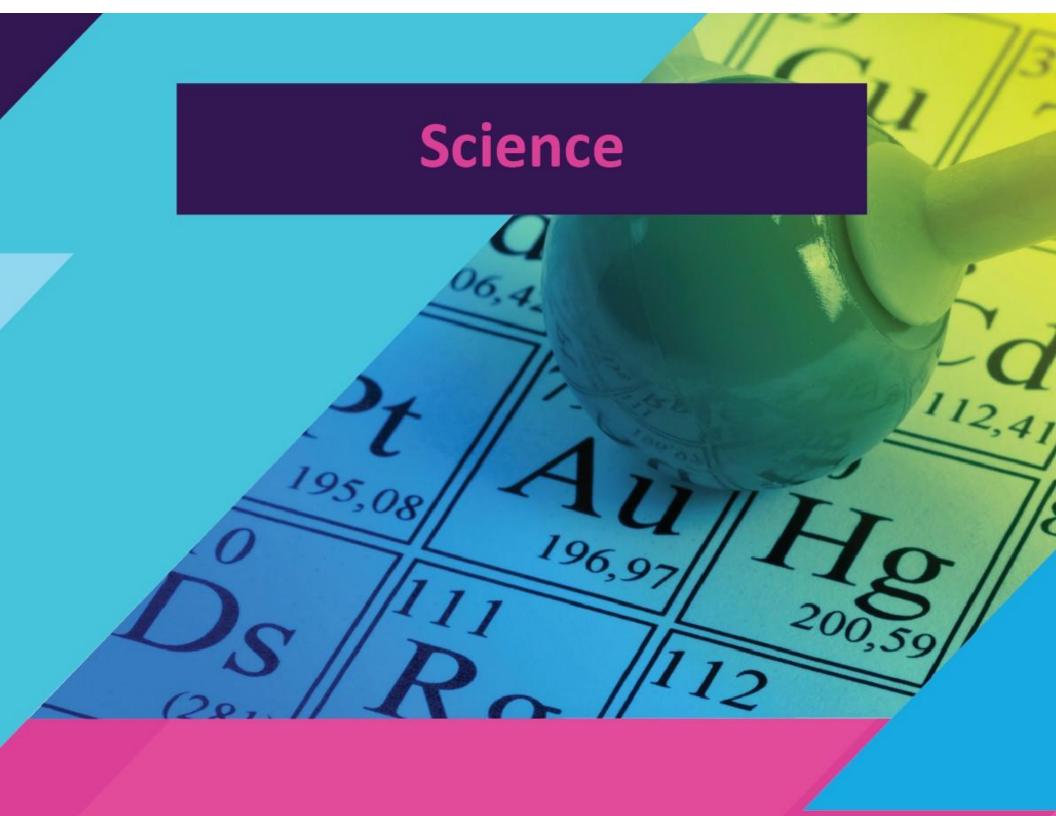
ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
				b3MYAiABIiYKJAnPKgG31Vck QBFq6OiMiiIkQBm4sHV2Kc9O wCFFdtkfv-xOwA
		Seasons and Hazards Describe the seasons in Trinidad and Tobago: dry season, wet season.	<b>Teaching and Learning Strategy:</b> Use of a rainfall and temperature chart to show the variations across the two seasons	Trinidad and Tobago Meteorological Service: Climate https://www.metoffice.gov.tt/Cli mate
		Define the terms natural event, natural hazard and natural disaster.	<b>Teaching and Learning Strategy:</b> Identify examples of natural disasters in the Caribbean	What Exactly is a Natural Hazard? https://youtu.be/rZjSVSxPm0Q
		Distinguish between the terms natural hazard and natural disaster.		
		Name three hazards that affect Trinidad and Tobago.	<b>Teaching and Learning Strategy:</b> Graphic organiser to show the three types of hazards	Hazards-Trinidad and Tobago https://odpm.gov.tt/node/15
		Explain the effects of Tropical Storms/Hurricanes, Flooding and Drought on people and the environment.	<b>Teaching and Learning Strategy:</b> Use examples in Trinidad and Tobago where possible, of students' experience. Have students make a list of the impact of	Hurricane Dorian tears through parts of the Bahamas https://youtu.be/P6ShYNAAyAQ

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>		
			flooding on their lives. The teacher can then expand through discussion	Hurricane Dorian hammers the Bahamas for more than 24 hours 1 ABC News		
			Use of Photographs to highlight the effects on people and the environment	https://youtu.be/qIuxhVpKdTw		
		Know basic safety	Teaching and Learning Strategy:	Earthquakes		
		precautions for disasters such as fire, earthquakes and hurricanes.	Class Discussion on safety practices during a disaster	https://odpm.gov.tt/sites/default/fi les/Earthquakes.pdf		
		Identify the local agencies for disaster preparedness and	Resource personnel form ODPM/Disaster Unit (Regional Corporation)	http://www.weready.org/earthqua ke/index.php?option=com_conten t&view=article&id=60&Itemid=7		
		management.	management.	management.	precautions they may have taken	3 CDEMA - WE READY - (Drop, Cover, Hold- On)
		Suggest three precautions	Assessment Strategy:			
		life and property.		https://youtu.be/ixWh2RA0m9Y Hurricanes		
			prepare a disaster preparedness plan for placement on the class or school's notice board	https://odpm.gov.tt/sites/default/fi les/Hurricanes.pdf		
				http://weready.org/hurricane/		

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
				Flooding https://odpm.gov.tt/sites/default/fi les/Flooding.pdf
				Trinidad and Tobago Fire Service-Fire Prevention Series Part 1
				https://www.facebook.com/watch/ ?v=853078278928747
				Trinidad and Tobago Fire Service-Fire Prevention Series Part 2
				https://www.facebook.com/watch/ ?v=237432128144971
				Trinidad and Tobago Fire Service-Fire Prevention Series Part 3
				https://www.facebook.com/watch/ ?v=2951698458431912
				ODPM: Wet Hurricane Season Preparedness Guidelines

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
				https://odpm.gov.tt/sites/default/fi les/2019%20ODPM%20HURRIC ANE%20PREPAREDNESS%20 GUIDE%20FINAL%20(1)- compressed.pdf
				Disaster Preparedness Checklist
				https://odpm.gov.tt/sites/default/fi les/Disaster%20Checklist.pdf
				Office of Disaster Preparedness and Management
				https://odpm.gov.tt/
				Ministry of Rural Development and Local Government: What we do
				https://rdlg.gov.tt/our- ministry/what-we-do/
The Geography		Locate on a map of the	Teaching and Learning Strategy:	Blank Map of the World
of the Caribbean		world the Caribbean Region.	Use atlas, globes and Google maps to locate the Caribbean Region and Trinidad and Tobago	https://worldmapblank.com/blank -map-of-world/
		On a blank map of the Caribbean name and locate the following geographic divisions: Greater Antilles, Lesser Antilles, Windward	<b>Teaching and Learning Strategy:</b> Use Maps to locate the Caribbean territories and surrounding bodies of water	Geographic Divisions West Indies https://www.britannica.com/place/ West-Indies-island-group- Atlantic-Ocean

TOPIC	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
		and Leeward Islands and South and Central America territories.		https://www.worldatlas.com/articl es/what-is-the-difference- between-the-greater-antilles-and- the-lesser-antilles.html
		Name and locate on a blank map the water bodies which surround the Caribbean Region.		Blank Maps of the Caribbean https://www.twinkl.co.uk/illustrati on/caribbean-map-black-and- white https://www.sheppardsoftware.co m/carribeanweb/blankmap.htm
		Define the Commonwealth Caribbean (historically). Identify countries of the Commonwealth Caribbean.	<b>Teaching and Learning Strategy:</b> Research and list the countries of the Commonwealth Caribbean	The Commonwealth https://thecommonwealth.org/our- member-countries



#### **SCIENCE**

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/ GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
Living and non-living things	Distinguish amongst living things based on their characteristics.	<ol> <li>List the characteristics of living things (suggested use of acronym GRIMNER).</li> <li>Describe each of the characteristics:         <ul> <li>growing (growth),</li> <li>reproducing (reproduction),</li> <li>sensitive to environment,</li> <li>moving (locomotion),</li> <li>eating (nutrition),</li> <li>producing waste (excretion), and</li> <li>breathing (respiration)</li> </ul> </li> <li>Compare living and non-living things in terms of similarities and differences.</li> </ol>	<ul> <li>Cooperative/Collaborative Learning</li> <li>Drama – Teaching strategies include Role Play and Artifacts.</li> <li>Brainstorming – Students are assisted in understanding what they already know about the topic and general ideas related to living and non-living things.</li> <li>Think-Pair-Share – Students required to think of their response with respect to living and non-living things, then share with class.</li> <li>Making of Posters – A visual display either provided by teacher or which students construct about living and non-living things.</li> <li>Group Work – Students work in manageable groups to reason and learn about the physical characteristics of living and non-living things.</li> </ul>	

ΤΟΡΙϹ	GENERAL OUTCOMES		INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
Vertebrates and Invertebrates	Distinguish between vertebrates and invertebrates.	<ol> <li>Define the terms, 'vertebrate. and 'invertebrate'.</li> <li>Describe the characteristics of invertebrates. (Animals that do not possess a backbone or an internal skeleton e.g. snails, worms, insects).</li> <li>Describe the characteristics of vertebrates (Animals that possess a backbone and an internal skeleton e.g. humans, birds, snakes).</li> <li>List the groups of vertebrates (mammals, birds, reptiles amphibians, fish).</li> <li>Describe the characteristics of each group.</li> <li>Categorise vertebrates into groups of:</li> <li>Mammals</li> <li>Birds</li> <li>Reptiles</li> <li>Amphibians</li> <li>Fish</li> </ol>	<ul> <li>Inquiry-Based Learning <ul> <li>Teacher guided examination of specimen</li> <li>Pose real questions,</li> <li>Find resources,</li> <li>Interpret information, and</li> <li>Report findings.</li> <li>Use of K-W-L-S (what I Know, what I Learnt, what I Still want to know)</li> <li>Chart as activity/learning tool.</li> <li>Brainstorming</li> <li>Think-Pair-Share</li> <li>Classroom Discussion</li> </ul> </li> </ul>	https://www.oercommons.org/co urses/water-retention-no- problem-with-the-key- vertebrates-invertebrates- investigation/view https://www.youtube.com/watch ?v=mRidGna-V4E

ТОРІС	GENERAL OUTCOMES		INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
Soil types	Investigate the movement of water through various soil types.	<ol> <li>List the different categories of soil types.</li> <li>Describe the characteristics of the different soil types</li> <li>Perform practical activities to investigate movement of water through various soil types.</li> </ol>	Collaborative Learning: Group work – Student work in groups to conduct experiments to determine which soil type allows for better drainage.	Getting to Know Soils OER: https://www.globe.gov/documen ts/348830/351088/ElementaryG LOBE_SoilActivity1_en.pdf Types of Soils: https://www.youtube.com/watch ?v=7h6psLfYA7w
Scientific instruments and their uses	Use of standard instruments used for measurement in science Length - meter rule Mass - balance Weight - spring balance Volume- measuring cylinder Time - stopwatch Temperature - thermometer	<ul> <li>Identify instruments to measure length, mass, volume, temperature, and time.</li> <li>Label the parts of a thermometer</li> <li>Use instruments to measure length, mass, volume, temperature, and time.</li> <li>Record readings in table, units used for each instrument and the abbreviated term used in measurement.</li> <li>Define the terms mass and weight</li> <li>Distinguish between mass and weight</li> </ul>	<ul> <li>Measuring skills – use of measuring cylinder and beakers to demonstrate reading off instruments. E.g., flat surface, reading at eye level, reading off the meniscus etc.</li> <li>Demonstration – teacher demonstrates the proper use of each instrument explaining the reading to be obtained, units and abbreviated term used for each instrument. Each student records their readings in the table provided by the teacher.</li> <li>Groupwork – students are placed in groups and are asked to prepare a checklist for the proper use of the instrument assigned.</li> <li>Making of posters – A visual display of all the standard</li> </ul>	https://www.youtube.com/watch ?v=-0p2RD0VnR0 https://www.youtube.com/watch ?v=ptaVY3-vRZM https://www.youtube.com/watch ?v=SE-nUsrbELE https://www.youtube.com/watch ?v=6i1dc9ZrZCY

ΤΟΡΙϹ	CENERAL OFFCOMES	CONTENT SCOPE/ GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
			instruments used for measurement in science created by students or teacher <b>Student Workstation</b> – stations are set use with one instrument assigned to each station with instructions for a task using the instrument. Students in groups move from station-to-station completing the task given in the instructions. Class then	
			meets to share and discuss the results for each task. Class discussion Individual work - Using a thermometer, the teacher names the parts of the thermometer and the function of each part. Students then	
			label the parts from the diagram provided by the teacher	
Parts of the: (i) plant (ii) flower	Examine the external parts of a plant.	<ol> <li>List the parts of a plant:</li> <li>Shoot System</li> <li>Stem</li> </ol>	<ul> <li>Classroom discussion: parts of a plant and flower</li> <li>Inquiry-based:</li> <li>A specimen of an easily</li> </ul>	Cornforth, Kyle. "Garden Science: Biology of a Flower". OER Commons. Institute for the Study of Knowledge
		<ul> <li>Fruit</li> <li>Flower</li> <li>Leaf</li> <li>Root System</li> </ul>	available plant (seedling) and flower (e.g., Hibiscus) should be provided for examination	Management in Education, 12 Feb. 2014. Web. 06 Jan. 2023. https://www.oercommons.org/au

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/ GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
	Examine the external parts of the flower.	<ul> <li>Root</li> <li>Draw a plant and label its parts</li> <li>List the external parts of a flower:</li> <li>Petals</li> <li>Sepals</li> <li>Anther and filaments (parts of the stamen)</li> <li>Style and Stigma (parts of the pistil).</li> <li>Distinguish amongst the external parts of a flower.</li> <li>Draw a flower showing all the external parts and label each clearly</li> </ul>	and drawing. 2. Examination of a specimen as an experimental skill. 3. A hand lens may be use 4. Drawing as an experimental skill.	thoring/4958-garden-science- biology-of-a-flower Bawden-Davis, Julie. "Diagram of the Parts of a Flower" sciencing.com, https://sciencing.com/diagram- of-the-parts-of-a-flower- 13426180.html 6 January 2023. Look inside a flower - https://youtu.be/R9sn7HZM7uY

# **Agricultural Science**



### AGRICULTURAL SCIENCE

ΤΟΡΙΟ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
Crops commonly cultivated for food in Trinidad and Tobago	• Identify crops commonly cultivated for food in Trinidad and Tobago	<ol> <li>Name the different Crop Groups:         <ul> <li>a. Cereals</li> <li>b. Legumes</li> <li>c. Leaf Crops</li> <li>d. Fruit Crops</li> <li>e. Root Crops</li> <li>f. Fibers</li> <li>g. Spices</li> <li>h. Medicines</li> <li>i. Forest products</li> </ul> </li> <li>Identify different crops from each crop group.</li> <li>Classify different crops cultivated in Trinidad and Tobago according to crop groups.</li> </ol>	<ul> <li>Use teacher guided activity for students to:</li> <li>Produce lists, tables and charts showing different crop groups.</li> <li>Match/drag and drop different crops into crop groups.</li> <li>Use of diagrams/pictures or drawings to help with the skill of distinguishing various crops commonly cultivated for food in Trinidad and Tobago</li> </ul>	<ul> <li>Visit to Kaleb's Farm in Santa Cruz, Trinidad &amp; Tobago: <u>https://www.youtube.co</u> <u>m/watch?v=LJHLI3FK</u> <u>RGM&amp;t=28s</u></li> <li>Visit to a Pawpaw / Papaya Farm in Trinidad &amp; Tobago</li> <li><u>https://www.youtube.com/watc</u> <u>h?v=SyJUImIDnME</u></li> <li>Ministry of Agriculture, Land and Fisheries, Fruits grown in Trinidad and Tobago</li> </ul>
			Cooperative/Collaborative Learning      Making of Posters – A visual display either provided by teacher or which students construct about crops commonly cultivated for food in Trinidad and Tobago.	https://agriculture.gov.tt/publica tions/fruits-grown-in-trinidad- and-tobago/

TOPIC	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
			• Group Work – Students work in manageable groups to deconstruct a vegetarian meal and classify ingredients into different crop groups.	
Animals commonly reared for food and Trinidad and Tobago	Identify Animals commonly reared for food and Trinidad and Tobago	Definition of the term 'Breed" A breed is a specific group of domestic animals having a similar appearance, behaviour, and/or other characteristics that distinguish it from other organisms of the same species. Some breeds of different animals commonly reared for food and Trinidad and Tobago <b>Poultry</b> : Rhode Island Red, Vantress Cross <b>Cattle</b> : Holstein, Jamaica Hope <b>Pig</b> : Large White, Hampshire, Duroc <b>Goat</b> : Sannen, British Alpine <b>Rabbit</b> : New Zealand White, Flemish Giant. <b>Sheep</b> : Barbados Black Belly, Katahdin <b>Products from Livestock:</b>	<ul> <li>Use teacher guided activity for students to:</li> <li>Produce diagrams and charts showing different breeds of livestock.</li> <li>Match/drag and drop different breeds of Livestock</li> <li>Use of diagrams/pictures or drawings to help with the skill of distinguishing various livestock products and the associated animal.</li> <li>Cooperative/Collaborative Learning <ul> <li>Making of Posters – A visual display either</li> </ul> </li> </ul>	<ul> <li>Tour of Marilissa Farms, Trinidad &amp; Tobago - The Largest Ruminant Farm in the Caribbean   GrownHome <u>https://www.youtube.co</u> <u>m/watch?v=7PS1SIUji9</u> <u>Y</u></li> <li>Virtual Dairy Farm Tour <u>https://www.youtube.co</u> <u>m/watch?v=LFN1OPbX</u> <u>LMo</u></li> </ul>

TOPIC	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
		Milk, Cheese, Meat, Eggs, Hide, Furs, Feathers etc.	<ul> <li>provided by teacher or which students construct about animals commonly reared for food and Trinidad and Tobago</li> <li>Group Work – Students work in manageable groups to create a recipe using selected livestock products.</li> </ul>	
Insect pests	<ul> <li>Classify insects according to their actions</li> <li>Describe the effects of each type of organism on agriculture</li> <li>Describe the control practices for these insect pests</li> </ul>	<ul> <li>Insects: Helpful and Harmful</li> <li>Mode of action on plants: biting, sucking, chewing, burrowing.</li> <li>Effects of insects on agriculture: Destruction of crops, transmitting diseases in livestock and humans</li> <li>Cultural practices associated with pest control</li> <li>Integrated Pest Management (IPM)</li> </ul>	<ul> <li>Use teacher guided activity for students to:</li> <li>Conduct labs to observe, identify and record pest damage to plants.</li> <li>Collect, mount and preserve insects</li> <li>Use of diagrams/pictures or drawings to help with the skill of distinguishing different types of insects and their effects on agriculture.</li> <li>Conduct research on IPM</li> </ul>	<ul> <li>Helpful Insects! <u>https://www.youtube.com/watc</u> <u>h?v=G23U1kWHb8k</u></li> <li>5 Beneficial Insects to Must Have in Garden <u>https://www.youtube.com/watc</u> <u>h?v=H-iIgTNdmRo</u></li> <li>Helpful and Harmful Insects   AuSum Sisters   Learning Video</li> <li><u>https://www.youtube.com/watc</u> <u>h?v=6eF1BHcVvOM</u></li> </ul>

ΤΟΡΙΟ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
			<ul> <li>Cooperative/Collaborative Learning</li> <li>Making of Posters – A labelled visual display either provided by teacher or which students construct about different types of insects and their effects on agriculture.</li> <li>Group Work – Students work in manageable groups to construct a diorama/model of a type of pest and how it is controlled.</li> </ul>	
Safety precautions when using/handlin g Fertilizers and Pesticides STUDENTS ARE NOT REQUIRED TO USE OR APPLY ANY FERTLIZERS OR PESTICIDES	<ul> <li>Identify types of Personal Protective Equipment (PPE) and safety precautions when using/handling fertilizers and pesticides</li> <li>Identify and explain the meaning of warning signs</li> </ul>	Types of PPE	<ul> <li>Use teacher guided activity for students to:</li> <li>Identify types of Personal Protective Equipment (PPE) and safety precautions when using/handling fertilizers and pesticides using pictures and videos</li> </ul>	<ul> <li>Avoid pesticide exposure</li> <li><u>http://npic.orst.edu/outreach/pp</u></li> <li><u>e-infographic.png</u></li> <li>Safety Measures for Farm Workers Handling Pesticides</li> <li><u>https://www.youtube.com/watc</u></li> <li><u>h?v=r9x33zkLdKA</u></li> </ul>

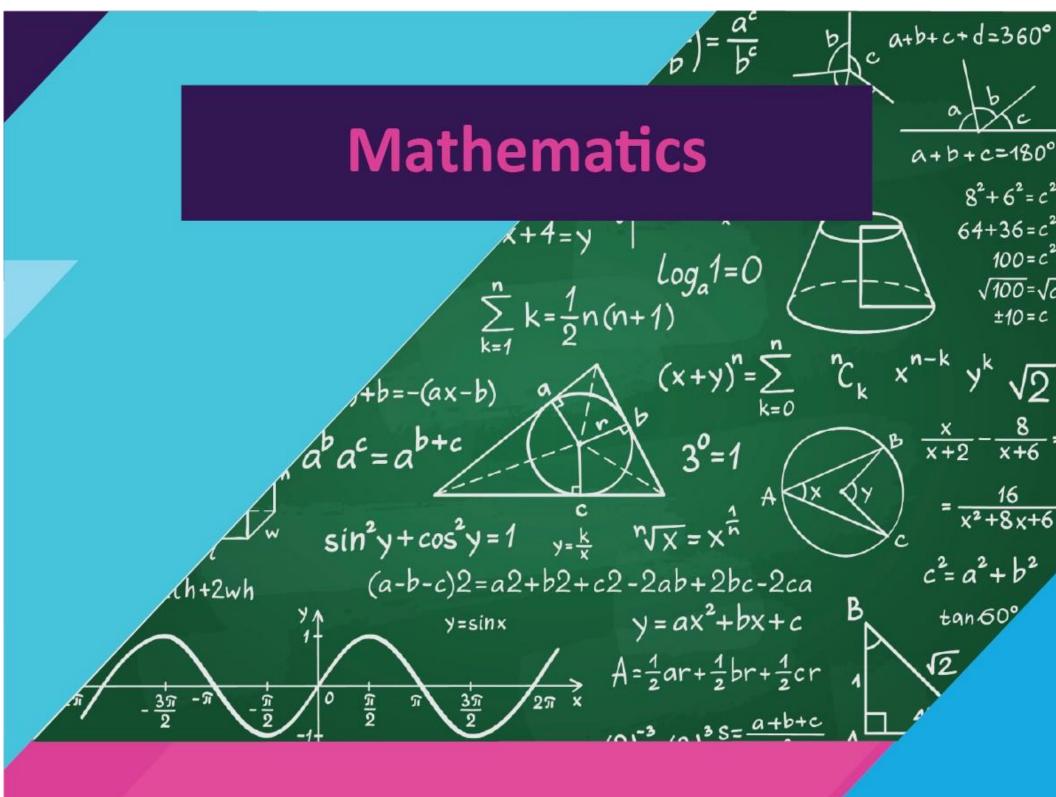
ΤΟΡΙΟ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
	and labels when using/handling fertilizers and pesticides	Source: https://www.omrindustryjournal .com/personal-protective- equipment-ppe • Using pesticides safely depends on many things. Some of the most important factors include selecting the appropriate product, storage of the product and using that product according to the label directions. The label directions are written to minimize the risk of problems and to define the legal uses for the product. • Interpreting and explaining warning signs and labels when using/handling fertilizers and pesticides	<ul> <li>Use of diagrams/pictures or drawings to help with the skills of identifying and explaining the meaning of warning signs and labels when using/handling fertilizers and pesticides</li> <li>Cooperative/Collaborative Learning         <ul> <li>Making of Posters – A visual display which students construct safety charts for the school garden/farm.</li> </ul> </li> <li>Group Work – Students work in manageable groups to create a safety brochure on warning signs and labels when using/handling fertilizers and pesticides</li> </ul>	<ul> <li>Farm Chemical Safety: Storing Chemicals on Farms</li> <li>https://www.youtube.com/watc h?v=8Bu_6IdjOCc</li> <li>SAFE Farms: Chemicals and Pesticides</li> <li>https://www.youtube.com/watc h?v=3NPqu-EHqVY</li> </ul>

ΤΟΡΙΟ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
		<section-header><complex-block></complex-block></section-header>		
		Source: http://www.chemsafetypro.com/To pics/GHS/GHS_for_pesticides.htm 1		

ΤΟΡΙΟ	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
		STORACE ATTUITY A A A A A A A A A A A A A A A A A A A		
		https://apps.lucidcentral.org/		

ΤΟΡΙΟ	GENERAL OUTCOMES		SCOPE JECTIV	/GENERAL /ES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
Scientific data from graphs and diagrams	• Read and interpret scientific data from graphs and diagrams	Tables, Tally Graphs Demonstrate classify, orga data. Demonstrate about the fea Charts and B Make decisic or interpretat Demonstrate findings orall Interpret, ana decisions from as the follow	the ability anize and an under tures of T ar Graph ons based ion of da the ability ly or in w lyse and m data in	ty to collect, represent rstanding Tables, Tally s on analysis ta. ty to present vriting. make	<ul> <li>Use teacher guided activity for students to: <ul> <li>Interpret and analyse the data from tables, tally charts and bar graphs so as to make decisions about a real- life situation or problem</li> </ul> </li> <li>Identify the features of tables, tally charts and bar graphs</li> </ul>	<ul> <li>Making a Tally Chart <u>https://www.youtube.com/watc</u> <u>h?v=RRH1EqYDWnI</u></li> <li>Making a Bar Chart <u>https://www.youtube.com/wat</u> <u>ch?v=ZWvp2TQ428Q</u></li> </ul>
		Type of CropPumpkinPepperEddoesPigeon Peas	Qı	<b>2019</b> 250 150 300 150	<ul> <li>Use of diagrams/pictures or drawings to help with the skills of interpreting and analysing data from tables, tally charts and bar graphs</li> <li>Cooperative/Collaborative Learning         <ul> <li>Making of Posters – A</li> </ul> </li> </ul>	
					visual display which students construct showing a table, tally chart or bar graph from data collected from agricultural activities	

TOPIC	GENERAL OUTCOMES	CONTENT SCOPE/GENERAL OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
			performed by the students	
			• Group Work – Students work in manageable groups to present data from a selected agricultural group activity.	



## MATHEMATICS

#### NUMBER

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
Whole Numbers	Understand the concept of numbers up to 1 000 000.	Represent whole numbers to 1 000 000 using multiple models and connect to numerals and number names. Represent any number up to one million using numerals or word names.	<ul> <li>Use multiple models (e.g., base ten materials, counters) to represent numbers up to one million concretely, pictorially and symbolically, and connect to numerals and number names.</li> <li>Explore activities involving reading and writing number names and numerals and numerals and matching number names and numerals.</li> <li>Describe the use of large numbers in real-life situations e.g., population, money applications.</li> <li>Use worksheets for independent practice.</li> </ul>	http://www.waitbutwhy.com/2014/1 1/from-1-to-1000000.html https://www.youtube.com/watch?v= DwYfxHzYS1w http://www.mathatube.com/place- value-by-7-numbers.html
	Develop an understanding of place value and value up to 1 000 000 (concretely, pictorially and	State the place value and value of a digit in any whole number up to one million.	<ul> <li>Use base 10 manipulatives, place value charts and drawings to determine place value and value.</li> <li>Reteach as necessary.</li> <li>Use worksheets for independent practice.</li> </ul>	https://www.youtube.com/watch?v= eLRMI2ZX5Qw http://www.primaryresources.co.uk/ maths/pdfs/place_value_grid_abacus .pdf
	symbolically).	Express a whole number up to one million using expanded notation.	<ul> <li>Use base 10 materials to represent numbers in expanded notation, e.g., 45 021 = (4 × 10 000) + (5 × 1 000) + (0 × 100) + (2 × 10) + (1 × 1) or 40 000 + 5 000 + 0 + 20 + 1.</li> <li>Use worksheets for independent practice.</li> </ul>	https://www.khanacademy.org/math /cc-fourth-grade-math/imp-place- value-and-rounding-2/imp-ways-to- write-whole-numbers-expanded- form-and-written-form/v/place- value-3

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
		Write the numeral represented by a given expanded notation.	<ul> <li>Explore activities involving the use of place value charts to determine a numeral represented by a given expanded notation.</li> <li>Represent an expanded notation as a numeral,</li> <li>e.g. (6 × 10 000) + (4 × 1 000) + (0 × 100) + (9 × 10) + (3 × 1) = 64 093.</li> </ul>	https://create.kahoot.it/share/standar d-form-word-form-and-expanded- form/ae2d3289-1854-4634-a31f- 8a61df064606 https://docs.google.com/document/d /1Ujab5wzX4iFYoG3oFl2- IVUwind- kwQ4KT4ZwNWsmmc/edit
	Develop an understanding of the comparison of numbers.	Compare whole numbers to one million. Order whole numbers to one million.	<ul> <li>Compare whole numbers up to one million (using resources such as place value charts and number lines) and use the symbols &gt; or &lt; to show the relationship between them.</li> <li>Explore activities related to order involving the use of manipulatives such as number lines and place value charts.</li> <li>Order a given set of numbers in ascending or descending order and explain the order by making references to place value.</li> </ul>	https://quizizz.com/join/quiz/5b8fe2 57b23e53001995022c/start?referrer =5b7b74bfe11b85001930f2d5 https://www.teachertube.com/videos /comparing-numbers-195759 https://www.topmarks.co.uk/orderin g-and-sequencing/caterpillar- ordering
	Approximate numbers to nearest ten, hundred, thousand and million.	Round numbers to the nearest tens, hundreds, thousands and up to millions.	<ul> <li>Review/check for prior knowledge of the rounding rule.</li> <li>Reteach as necessary using number lines.</li> <li>Independent practice (e.g., complete worksheets) to apply the rounding rule.</li> </ul>	https://tasks.illustrativemathematics. org/content-standards/tasks/1806 https://www.khanacademy.org/math /cc-fourth-grade-math/imp-addition- and-subtraction-2/imp-rounding- whole-numbers/v/rounding-whole- numbers-2

ΤΟΡΙΟ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
				https://www.free-training- tutorial.com/crossword-puzzles- kids.html#rounding
	Create and solve problems using whole numbers involving the four operations.	Solve problems in addition (sum less than 10 000) and subtraction (minuend less than 10 000). Multiply 2-, 3- and 4- digit numbers by 2- digit numbers. Divide 2-, 3- and 4- digit numbers by 2- digit numbers by 2- digit numbers (with and without remainder). Solve one-step word problems involving any one of the four basic operations on whole numbers (including problems on increasing and decreasing patterns).	<ul> <li>Solve problems using whole numbers involving the four operations by using appropriate strategies such as the written algorithm and mental strategies and manipulatives such as base ten materials, place value charts and grid paper.</li> <li>Use estimation strategies when solving problems.</li> <li>Use Polya's problem solving strategy/approach to solve problems.</li> <li>Cooperative learning.</li> <li>Model by 'thinking aloud' the process.</li> <li>Create problems to pose to the class for solving.</li> <li>Use worksheets for independent practice.</li> </ul>	https://www.oercommons.org/cours es/addition-and-subtraction- tutorial/viewhttps://www.youtube.com/watch?v= TAB9vg6cNWEhttps://www.nextvista.org/adding- three-and-four-digit-numbers/www.thesingaporemaths.comhttps://ictgames.com/mobilePage/in dex.htmlhttps://ictgames.com/mobilePage/in dex.htmlhttps://www.youtube.com/watch?v= BcXAdGvMefg

ТОРІС	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
Fractions	Develop an	Solve multi-step word problems involving any combination of the four basic operations on whole numbers (including problems on increasing and decreasing patterns). Represent a fraction	• Discuss the uses of fractions in everyday	https://www.khanacademy.org/math /cc-fourth-grade- math/division/multi-step-word- problems/e/multi-step-word- problems-with-whole-numbers https://www.youtube.com/watch?v= 5N1aMDcHjrk https://www.khanacademy.org/math
Fractions	understanding of fractions using the area, linear and set models.	concretely, pictorially and symbolically.	<ul> <li>Discuss the uses of fractions in everyday life.</li> <li>Explore and describe relationships between wholes and parts (equal and unequal) using all three models.</li> <li>Direct instruction using manipulatives such as fraction pieces, number lines and counters.</li> <li>Use concrete materials and worksheets to represent fractions using area, linear and set models.</li> </ul>	https://www.khanacadeniy.org/math         /arithmetic/fraction-arithmetic         https://www.youtube.com/watch?v=         MkFs11eEu9o         https://phet.colorado.edu/en/simulati         ons/fractions-intro
	Become aware of the names associated with fractions.	Name fractions using words and symbols.	<ul> <li>Explain the meanings of the terms numerator and denominator.</li> <li>Connect word/number names to models and pictorial and symbolic representations.</li> <li>Use worksheets for independent practice.</li> </ul>	https://www.khanacademy.org/math /arithmetic/fraction-arithmetic https://www.youtube.com/watch?v= yT1WuyxTCmo https://phet.colorado.edu/en/simulati ons/build-a-fraction

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
	Extend the concept of fractions to involve two different quantities.	Express one quantity as a fraction of another.	<ul> <li>Review/check for prior knowledge and reteach as necessary.</li> <li>Review wholes and parts of wholes as it relates to different quantities, e.g., one hour is the whole and 30 mins is a part.</li> <li>Review the meanings of numerators and denominators.</li> <li>Cooperative learning.</li> <li>Guided practice and direct instruction to reinforce procedures for writing the appropriate fraction.</li> <li>Use worksheets for independent practice (including for example, 'What fraction of 1 hour is 45 minutes?').</li> </ul>	https://www.youtube.com/watch?v= WzebFXp2BXI https://www.youtube.com/watch?v= DvKmaFQSynE
	Distinguish between proper, improper and mixed number and convert from one form to another.	Classify fractions as proper fractions, improper fractions and mixed numbers.	<ul> <li>Use manipulatives, drawings and symbols to represent fractions.</li> <li>Guided questioning and direct instruction to classify fractions.</li> <li>Cooperative learning.</li> <li>Use worksheets for independent practice.</li> </ul>	https://www.youtube.com/watch?v= <u>RNt8CKGnPko</u> <u>https://www.youtube.com/watch?v=</u> <u>N3_8MmaiLE</u>
	to another.	Express improper fractions as mixed numbers.	• Explore and explain, using models, the equivalent relationship of fractions that represent more than one e.g., 5 quarters = one whole and a quarter; $\frac{5}{4} = 1$ and $\frac{1}{4} = 1\frac{1}{4}$ ; 2 halves $=\frac{2}{2} = 1$ .	https://www.youtube.com/watch?v= KEmCZGbd4R8 https://www.youtube.com/watch?v= EY4jtszKmGE
		Express mixed numbers as improper fractions.	<ul> <li>Use manipulatives and drawings to model the relationship between improper fractions and mixed numbers.</li> <li>Descibe the pattern observed in the relationship between improper fraction</li> </ul>	https://www.youtube.com/watch?v= 03HE-sUu6RU

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
	Recognise and generate equivalent fractions using a variety of models.	Generate equivalent fractions (proper) using a variety of models.	<ul> <li>and mixed number and explain conversion from one form to the other.</li> <li>Cooperative learning.</li> <li>Use worksheets for independent practice.</li> <li>Use manipulatives and drawings to model equivalent fractions.</li> <li>Explore the equivalent relationships between fractions by matching/overlaying different fractional parts related to a common whole and describing the relationship.</li> <li>Record equivalent relationships using the equal symbol (and non-equivalent relationships using the not equal to symbol).</li> <li>Describe the pattern observed in equivalent relationships and state the pattern rule.</li> <li>Use worksheets to illustrate equivalent fractions using the rule.</li> <li>Reduce a fraction to its lowest equivalent form.</li> </ul>	https://www.youtube.com/watch?v=qcHHhd6HizIhttps://www.youtube.com/watch?v=TLGw53eDTe0https://www.youtube.com/watch?v=4xFwkDSMVw4https://www.youtube.com/watch?v=AfIWgwDqNeQhttps://www.youtube.com/watch?v=ItYAlt33IoY&list=PLoPH9JUqy7ESHmrz4YGtlyPAnvdNfu7Gf&index=4https://www.khanacademy.org/math/arithmetic/fraction-arithmetic
	Develop an understanding of the comparison of fractions.	Compare and order proper fractions with unlike denominators using equivalent relationships.	<ul> <li>Explore the equivalent relationships between fractions by matching/overlaying different fractional parts related to a common whole and describing the relationship.</li> <li>Compare and order fractions using equivalent relationships and by</li> </ul>	https://www.youtube.com/watch?v= KNdUJQ_qd4U https://tasks.illustrativemathematics. org/content-standards/tasks/875 https://tasks.illustrativemathematics. org/content-standards/tasks/811

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
		Compare and order fractions (proper, improper and mixed) in ascending and descending order using equivalent relationships.	<ul> <li>positioning a given set of fractions with like and unlike denominators on a number line and explain reasons.</li> <li>Guided practice to develop a method to compare and order fractions.</li> <li>Cooperative learning to practice the procedure (worksheets).</li> <li>Guided discovery to develop a method to compare and order fractions.</li> <li>Place a given set of fractions, including mixed numbers and improper fractions, on a number line and explain strategies used to determine position.</li> <li>Cooperative learning to practice the procedure (worksheets).</li> </ul>	https://www.youtube.com/watch?v= 4Ql6o932ZFU https://www.khanacademy.org/math /arithmetic-home/arith-review- fractions/mixed- number/e/comparing_improper_frac tions_and_mixed_numbers
	Solve problems involving fractions and four operations.	Add a fraction to a whole number.	<ul> <li>Model addition of a fraction to a whole number using concrete and pictorial representations, record symbolically, and explain findings.</li> <li>Use cooperative learning to develop and apply the algorithm for solving problems involving adding a fraction to a whole number.</li> <li>Use worksheets with problems for independent practice.</li> </ul>	https://www.youtube.com/watch?v= SAgVrzkSsU4
		Subtract a fraction from a whole number.	<ul> <li>Model subtraction of a fraction from a whole number using concrete and pictorial representations, record symbolically, and explain findings.</li> <li>Use cooperative learning to develop and apply the algorithm for solving problems</li> </ul>	https://www.youtube.com/watch?v= <u>RVMktMqUvn8</u>

TOPIC	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
			involving subtracting a fraction from a	
			whole number.	
			• Use worksheets for independent practice.	
		Add and subtract	• Model addition and subtraction of	https://www.youtube.com/watch?v=
		fractions involving	fractions involving the same denominator	<u>EJjnEau6aeI</u>
		same denominator.	using concrete and pictorial	
			representations, record symbolically and	https://www.khanacademy.org/math
			explain pattern observed.	/cc-fourth-grade-math/imp-
			• Use cooperative learning to develop and	fractions-2/imp-adding-and-
			use the algorithm for solving problems	subtracting-fractions-with-like-
			involving the addition and subtraction of	denominators/e/adding_fractions_wi
			fractions involving the same	th_common_denominators
			denominator.	
			• Use worksheets for independent practice.	
		Add and subtract	• Model addition and subtraction of	https://www.youtube.com/watch?v=
		fractions involving	fractions involving one denominator a	bcCLKACsYJ0
		one denominator a	multiple of the other using concrete and	
		multiple of the other.	pictorial representations, record	https://www.khanacademy.org/math
			symbolically and explain pattern	/arithmetic/x18ca194a:add-and-
			observed.	subtract-fractions-different-
			• Use cooperative learning to develop and	<u>denominators</u>
			use the algorithm for solving problems	https://www.mathsisfun.com/fractio
			involving the addition and subtraction of	ns addition.html
			fractions involving one denominator a	<u>ins_addition.num</u>
			multiple of the other by utilizing	
			equivalent fractions.	
		Add and automat	• Use worksheets for independent practice.	https://www.leboness.down.org/worth
		Add and subtract	Cooperative learning and guided discovery     to develop a method to achieve problems	https://www.khanacademy.org/math /arithmetic/x18ca194a:add-and-
		fractions involving different denominators	to develop a method to solve problems.	<u>subtract-fractions-different-</u>
		unrerent denominators	Review and use equivalent relationships to     active grapheres	denominators
			solve problems.	<u>uenonninators</u>

TOPIC	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
		(one not a multiple of the other). Solve problems involving addition and subtraction of mixed numbers.	<ul> <li>Use LCM to add and subtract fractions involving different denominators.</li> <li>Model by 'thinking aloud' the process.</li> <li>Use worksheets for independent practice.</li> <li>Model addition and subtraction involving mixed numbers using concrete and pictorial representations, and record symbolically.</li> <li>Use cooperative learning to explain procedures used to solve problems.</li> <li>Model by 'thinking aloud' the process.</li> <li>Use worksheets for independent practice.</li> </ul>	https://www.mathsisfun.com/fractio ns_addition.htmlhttps://www.youtube.com/watch?v= pynfj2bYRmshttps://www.youtube.com/watch?v= RqUPSZLwHH0https://www.oercommons.org/author ing/22348-add-and-subtract-mixed- numbers/view
		Multiply fractions by whole numbers.	<ul> <li>Cooperative learning to solve problems using the repeated addition strategy before developing the rule.</li> <li>Model the multiplication of proper fractions by whole numbers concretely, pictorially and symbolically and record the process, e.g., 'You gave your 3 friends <sup>2</sup>/<sub>3</sub> of a sandwich each. How many sandwiches did you give away?'</li> <li>Use worksheets for independent practice.</li> </ul>	https://www.youtube.com/watch?v= is4Fa4zqri8 https://www.youtube.com/watch?v= XaJQse2u5TQ https://www.khanacademy.org/math /cc-fourth-grade-math/4th-multiply- fractions/multiplying-whole- numbers-and- fractions/e/multiplying_fractions_by integers
		Calculate fractions of a collection or set.	<ul> <li>Use real-life examples and manipulatives to calculate fractions of a collection or set, e.g., 'What is <sup>1</sup>/<sub>2</sub> of 30?'</li> </ul>	https://www.youtube.com/watch?v= nST5wnUMG70

TOPIC	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
			<ul> <li>Use guided questioning to engage students to solve problems conceptually before relating to multiplication.</li> </ul>	https://www.youtube.com/watch?v= orI0oL9_q9c
				https://www.ck12.org/c/elementary- math-grade-5/multiply-whole- numbers-and-fractions/
		Calculate the whole	• Review/check for prior knowledge.	https://www.youtube.com/watch?v=
		given a part expressed as a unit fraction.	• Use manipulatives and drawings to model solutions to problems.	prs-v53owVQ
			<ul> <li>Explore patterns observed while solving conceptually in order to develop an algorithm.</li> </ul>	https://www.youtube.com/watch?v= sWObNz8Wp7c
			<ul> <li>Use worksheets for independent practice.</li> </ul>	
		Divide a whole number by a fraction.	• Model the concept of division concretely or pictorially to develop the skill of	https://www.oercommons.org/cours eware/lesson/93737/overview?sectio
			dividing a whole number by a fraction and record the process, e.g., 'I have 4	<u>n=2</u>
			crackers that I want to divide into halves.	https://www.ck12.org/c/elementary-
			How many pieces would I have?'	math-grade-5/dividing-whole- numbers-by-fractions/
				https://www.youtube.com/watch?v= SPMoNUAbV48
				https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-
			• Derive and describe patterns resulting from the division of whole numbers by fractions.	arithmetic- operations/x0267d782:dividing- fractions-and-whole-

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
		Divide a fraction by a whole number.	<ul> <li>Use cooperative learning to develop and use the algorithm to solve a variety of real-life problems involving division of whole numbers by fractions.</li> <li>Use worksheets for independent practice.</li> <li>Model division of fractions by whole numbers using linear models and pictorial representations.</li> <li>Use cooperative learning to develop and use the algorithm for solving problems involving the division of a fraction by a whole number.</li> <li>Use worksheets for independent practice.</li> </ul>	numbers/e/divide-whole-numbers- by-fractions         https://flexbooks.ck12.org/cbook/ck- 12-middle-school-math-concepts- grade- 6/section/7.8/primary/lesson/divisio n-of-fractions-by-whole-numbers- msm6/         https://www.youtube.com/watch?v= HJDdryQpJXU         https://www.youtube.com/watch?v= HJDdryQpJXU
	Solve problems involving fractions.	Solve one-step and multi-step real-life problems involving fractions.	<ul> <li>Use Polya's problem solving strategy/approach to solve problems.</li> <li>Cooperative learning.</li> <li>Model by 'thinking aloud' the process.</li> <li>Use worksheets for independent practice.</li> </ul>	1YWyTdtofdEhttps://www.youtube.com/watch?v=f4-xdO3vQOghtt.ps://www.khanacademy.org/math/cc-fifth-grade-math/5th-multiply-fractions/imp-multiplying-fractions-word-problems/e/multiplying-fractions-by-fractions-word-problemshttps://www.khanacademy.org/math/arithmetic/x18ca194a:divide-fractions/x18ca194a:dividing-fractions-and-whole-numbers-word-

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
				problems/e/division-with-fractions- and-whole-numbers https://www.khanacademy.org/math /cc-fifth-grade-math/imp-fractions- 3/imp-adding-and-subtracting- fractions-with-unlike-denominators- word-problems/e/adding-and- subtracting-fractions-with-unlike- denominators-word-problems
Decimals	Develop the concept of a decimal fraction i.e. • tenth • hundredth	Demonstrate an understanding of decimals up to hundredths.	<ul> <li>Explore concrete (base ten materials, fraction models) and pictorial representations (number lines and fraction charts) to introduce base ten fractions (tenths and hundredths).</li> <li>Extend place value chart to include decimal fractions (tenths and hundredths).</li> <li>Use decimal notation as another form of writing base ten fractions (tenths and hundredths) and hundredths), e.g., '0.1 is the same as 1/10.'</li> <li>Represent decimals (tenths and hundredths) concretely on a place value mat, pictorially and symbolically and read the amount represented.</li> </ul>	https://flexbooks.ck12.org/cbook/ck- 12-middle-school-math-concepts- grade- 6/section/3.3/primary/lesson/decima ls-in-words-msm6/ https://www.khanacademy.org/math /arithmetic/arith-decimals https://www.youtube.com/watch?v= XNnRKAwwKWc
		Match number names to decimal fractions and quantities.	<ul> <li>Check for understanding by matching the number names (e.g., two and five tenths) and decimal fractions (e.g., 2.5), to the quantities they represent.</li> <li>Use worksheets for independent practice.</li> </ul>	https://www.youtube.com/watch?v= ibR_iBxnITE https://www.youtube.com/watch?v= z9RlPXl4r7A

TOPIC GENERA OUTCOM	SCOPE/SPECIEIC	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
Explore the place value decimals to hundredths including expanded notation (an involving money).	of State the place value of digits in decimal fractions up to hundredths. ad State the value of digits in decimal fractions up to hundredths. Write decimal fractions using expanded notation.	<ul> <li>Guided practice to determine the place value and value of digits in numerals using base ten materials including place value mats.</li> <li>Use worksheets for independent practice.</li> <li>Use of technology to conduct research about the pattern of adjacent place positions moving from left to right and right to left of the decimal point.</li> <li>Review expanded notation involving whole numbers.</li> <li>Use base ten materials to model the process.</li> <li>Use worksheets to write decimal fractions using expanded notation and</li> </ul>	https://youtu.be/2xGzQXn3WUQhttps://www.mathgames.com/skill/5.15-identify-place-values-in-decimal- numbershttps://www.ck12.org/c/elementary- math-grade-4/completing-a-decimal- place-value-chart-up-to-hundredths/https://tasks.illustrativemathematics. org/content-standards/tasks/145https://www.youtube.com/watch?v= EWHM8gMzVck
	Convert expanded notation to decimal fractions. Record money values	<ul> <li>vice versa.</li> <li>Guided practice.</li> </ul>	https://www.youtube.com/watch?v= DDd1B3yNM58 https://www.youtube.com/watch?v= wxwP_Y00mEY https://www.youtube.com/watch?v=
	using decimals.	<ul> <li>Use worksheets for independent practice.</li> </ul>	<u>M_Njjd5YQiE</u>
Demonstrat understandi rounding involving		<ul> <li>Review/check for prior knowledge of the rounding rule.</li> <li>Reteach as necessary using number lines.</li> <li>Independent practice (e.g., complete</li> </ul>	https://www.youtube.com/watch?v= zwg9wdGijv8 https://www.youtube.com/watch?v=
decimals.		worksheets) to apply the rounding rule.	sdq2ckDsSbA

ΤΟΡΙΟ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
	Develop an understanding of the comparison of decimals.	Compare two decimals up to hundredths. Arrange decimal fractions in ascending and descending order (up to hundredths)	<ul> <li>Cooperative learning/guided discovery to develop a method to compare decimals.</li> <li>Use place value charts and number lines to aid in comparing decimals.</li> <li>Compare two decimal fractions and use the symbols &gt; or &lt; or = to show the relationship between them.</li> <li>Use cooperative learning to compare and order decimal fractions in ascending and descending order.</li> </ul>	https://www.khanacademy.org/math /4th-engage-ny/engage-4th-module- 6/4th-module-6-topic- c/v/comparing-decimals-with- hundredths https://www.youtube.com/watch?v= DwgESLxWrQw https://www.youtube.com/watch?v= GsdSMz0WwTM
	Relate common fractions to decimals.	(up to hundredths). Convert decimal fractions to common fractions and vice versa (halves, quarters, fifths, tenths).	<ul> <li>Use worksheets for independent practice.</li> <li>Review of prior knowledge on equivalent fractions using manipulatives such as base ten materials, place value charts and fraction pieces.</li> <li>Guided instruction to write decimals as fractions and reduce the fractions to the lowest term.</li> <li>Guided instruction to express common fractions (halves, quarters, fifths and tenths) as decimal fractions (tenths and hundredths).</li> <li>Use worksheets for independent practice.</li> </ul>	https://www.youtube.com/watch?v=         qesj2jpktaE         https://www.youtube.com/watch?v=         _jcW-ZgpRbM&t=337s         https://www.youtube.com/watch?v=         do_IbHId2Os&t=133s         https://www.youtube.com/watch?v=         https://www.youtube.com/watch?v=         https://www.youtube.com/watch?v=         https://www.youtube.com/watch?v=         https://www.youtube.com/watch?v=         https://www.youtube.com/watch?v=
	Solve problems involving decimals.	Solve problems involving the addition and subtraction of decimals including money (up to hundredths and including the use of the algorithm).	<ul> <li>Solve problems involving the addition and subtraction of decimals by using concrete and pictorial representations of base ten materials and place value charts, and explain the procedure used.</li> <li>Record the procedure used for solving addition and subtraction problems</li> </ul>	https://www.youtube.com/watch?v= PnwLv6khwk8 https://www.khanacademy.org/math /5th-engage-ny/engage-5th-module- 1/5th-module-1-topic- d/e/subtracting-decimals-without- the-standard-algorithm-8

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
			<ul> <li>involving decimals, symbolically, and explain the algorithm.</li> <li>Explain why keeping track of place value positions is important when adding and subtracting decimals.</li> <li>Provide worksheets for independent practice.</li> </ul>	
		Solve problems involving the multiplication of a decimal by a whole number and involving the multiplication of tenths by tenths.	<ul> <li>Investigate multiplication of decimals by whole numbers and decimals by converting decimal to base ten fractions before multiplying,</li> <li>e.g., 0.8 × 6 = <sup>8</sup>/<sub>10</sub> × 6 = <sup>48</sup>/<sub>10</sub> = 4.8 0.6 × 0.4 = <sup>6</sup>/<sub>10</sub> × <sup>4</sup>/<sub>10</sub> = <sup>24</sup>/<sub>100</sub> = 0.24.</li> <li>Observe patterns before generalizing and applying rules (algorithms) for multiplication involving decimals.</li> <li>Recognise the number patterns formed when decimal numbers are multiplied by 10 or 100.</li> <li>Explain why keeping track of place value positions is important when applying the operations on decimal numbers.</li> <li>Use guided practice with worksheets.</li> </ul>	https://www.youtube.com/watch?v= r8sngF1WSVU https://www.youtube.com/watch?v= yueSfjh2ra4 https://www.khanacademy.org/math /cc-fifth-grade-math/imp- multiplication-and-division- 3/multiplying-decimals-and-whole- numbers/e/multiply-whole-numbers- and-decimals
		Solve problems involving the division of a decimal fraction by a whole number (dividend up to 2 decimal places).	<ul> <li>Investigate division of decimals (limited to hundredths) by whole numbers.</li> <li>Generalize and apply rule (algorithm) for dividing decimals by whole numbers.</li> </ul>	https://www.youtube.com/watch?v= <u>IheBIlt2s20</u> https://www.youtube.com/watch?v= <u>bIRwzhhBzEU</u>

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
		Solve problems involving the division of two whole numbers, with answer less than one.	<ul> <li>Recognise the number patterns formed when decimal numbers are divided by 10 or 100.</li> <li>Explain why keeping track of place value positions is important when applying the operations on decimal numbers.</li> <li>Cooperative learning to solve problems.</li> <li>Investigate the relationship between decimals and the division of two whole numbers with answer less than one, e.g., 3 ÷ 4 = 3.00 ÷ 4 = 0.75</li> <li>Model by 'thinking aloud' the process.</li> <li>Guided practice.</li> <li>Use worksheets for independent practice.</li> </ul>	https://www.youtube.com/watch?v= oAOwYjRizk0 https://www.youtube.com/watch?v= 8hWnezlQ_lk
		Solve real world problems involving whole number, fractions and decimals using the four operations.	<ul> <li>Use Polya's problem solving strategy/approach to solve problems.</li> <li>Cooperative learning.</li> <li>Use a number of strategies to solve routine and non-routine problems involving decimals.</li> <li>Use estimation strategies when solving problems</li> <li>Model by 'thinking aloud' the process.</li> <li>Create problems to pose to the class for solving.</li> <li>Use worksheets for independent practice.</li> </ul>	https://www.youtube.com/watch?v= hy_bDS3aHO4 https://www.youtube.com/watch?v= kIz9m62yAKE

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
Percent	Develop an understanding of percent concretely, pictorially and symbolically.	Write the percent displayed in a given concrete or pictorial representation.	<ul> <li>Investigate area models (including base ten materials, geoboards and grid paper) divided into 100 equal parts pictorially to connect fractions to percents.</li> <li>Explain that "percent" means "hundredths" and that the symbol % means 'percent'.</li> <li>Explore real-life situations involving percent.</li> <li>Record the percent displayed in a given concrete or pictorial representation symbolically.</li> <li>Identify and describe percents from real-life situations, and record them symbolically.</li> </ul>	https://www.youtube.com/watch?v= JeVSmq1Nrpw https://www.youtube.com/watch?v= nV6bRozq5Po https://www.khanacademy.org/math /cc-sixth-grade-math/x0267d782:cc- 6th-rates-and-percentages/cc-6th- percentages/e/intro-to-percents
	Demonstrate an understanding of the relationships between fractions, decimals and percents.	Convert among fractions, decimals and percents.	<ul> <li>Guided discovery to allow students to develop the algorithm for converting among fractions, decimals and percents using manipulatives such as base ten materials, geoboards, grid paper and place value charts.</li> <li>Relate percents (e.g., 50%, 25%, 20% and 10%) to fractions (e.g., <sup>1</sup>/<sub>2</sub>, <sup>1</sup>/<sub>4</sub>, <sup>1</sup>/<sub>5</sub>, <sup>1</sup>/<sub>10</sub>) and decimals (e.g., 0.5, 0.25, 0.2 and 0.1).</li> <li>Recall commonly used related percents, decimals and fractions, e.g., 75%, 0.75 and <sup>3</sup>/<sub>4</sub>.</li> <li>Direct instruction for converting among fractions, decimals and percent.</li> </ul>	https://www.youtube.com/watch?v= wwg052FC_Zw https://www.youtube.com/watch?v= -gB1y-PMWfs https://www.khanacademy.org/math /pre- algebra/xb4832e56:percentages/xb4 832e56:equivalent-representations- of-percent-problems/a/converting- between-percents-fractions-decimals

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
			<ul> <li>Use technology tools to verify solutions.</li> <li>Demonstrate the algorithm for converting from one form to another.</li> <li>Provide opportunities for students to practice using worksheets.</li> </ul>	
	Develop an understanding of the comparison of numbers.	Compare and order fractions, decimals and percents in ascending or descending order.	<ul> <li>Cooperative learning/guided discovery to develop a method to compare fractions, decimals and percents using resources such as place value charts, number lines and grid paper.</li> <li>Cooperative learning to practice the procedure (worksheets).</li> </ul>	https://www.youtube.com/watch?v= 8jzRlvp3BX8 https://www.youtube.com/watch?v= pZkYQK8eLJQ
	Solve problems involving percentages.	Calculate the percent of a quantity.	• Guided instruction to solve problems, e.g., 10% of $200 = \frac{1}{10}$ of $200 = 20$ .	https://www.youtube.com/watch?v= rR95Cbcjzus
		Express a quantity as a percentage of another.	<ul> <li>Review expressing a quantity as a fraction of another.</li> <li>Use worksheets for independent practice.</li> </ul>	https://www.youtube.com/watch?v= Uf-R11e2I4Q https://www.youtube.com/watch?v= aQsswk2pdas
		Solve one-step real- life problems involving percentages.	<ul> <li>Use Polya's problem solving strategy/approach to solve problems.</li> <li>Cooperative learning.</li> <li>Model by 'thinking aloud' the process.</li> <li>Engage students in solving problems that include fractions, decimals and precents.</li> </ul>	https://www.youtube.com/watch?v= RBFR0Ss72yQ https://www.khanacademy.org/math /cc-sixth-grade-math/x0267d782:cc- 6th-rates-and-percentages/cc-6th- percent-word- problems/e/percentage_word_proble ms

ΤΟΡΙΟ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
		Solve multi-step real- life problems		https://www.youtube.com/watch?v= dJMYNdMjdy4
		involving percentages.		<u>djwi i Ndivijdy4</u>
				https://www.youtube.com/watch?v= OFr5jktfl6g
				https://www.youtube.com/watch?v= voDhj3Z9YyA
				https://www.youtube.com/watch?v= suAikQqJD34

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
Number Theory	Demonstrate an understanding of different types of numbers and/or the relationship between numbers: • odd • even • multiple • factors • prime • composite • squares • square root	Differentiate between or among (a) odd and even numbers (b) factors and multiples of numbers (c) prime and composite numbers (d) square numbers and their square roots	<ul> <li>Use technology tools to conduct research.</li> <li>Cooperative learning to conceptually understand the different types of numbers and describe relationships among them using appropriate resources and activities.</li> <li>Describe patterns observed and explain rules.</li> <li>Apply the algorithm for finding factors and multiples with or without arrays.</li> <li>Exploration activities involving the use of resources such as counters, number lines, hundred charts, grid paper, multiplication and division tables and calculators.</li> </ul>	https://www.khanacademy.org/math /algebra/x2f8bb11595b61c86:ration al-exponents- radicals/x2f8bb11595b61c86:radical s/e/square_rootshttps://www.khanacademy.org/math /in-class-6-math- foundation/x40648f78566eca4e:fact ors-and- multiples/x40648f78566eca4e:even- and-odd-numbers/e/identifying-odd- and-even-numbershttps://www.primarygames.com/mat h/matheggsevenodd/ https://www.youtube.com/watch?v= S7CLLRHe8ikhttps://www.youtube.com/watch?v= 3h4UK62Qrbohttps://www.youtube.com/watch?v= yICR9PiW340
Proportion	Demonstrate an understanding of direct proportion.	Solve real-world problems involving direct proportion.	<ul> <li>Cooperative learning to solve real world problems involving direct proportions, e.g., 'If the cost of 6 apples is \$30, what would be the cost of 4 apples?'</li> <li>Model by 'thinking aloud' the process used to solve problems.</li> <li>Guided instruction related to the solving of problems.</li> </ul>	https://thirdspacelearning.com/gcse- maths/ratio-and-proportion/direct- proportion/

TOPIC	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
Money	Develop an understanding of our currency and the value of coins and bills.	Identify coins, bills, their value and the value of a set of coins/bills (up to 100 cents and \$100).	<ul> <li>Review the value of coins and bills.</li> <li>Engage students in practical situations involving coins and bills.</li> <li>Use actual coins and bills to count money.</li> <li>Use a combination of bills and coins to allow students to represent the value.</li> <li>Provide opportunities for multiple purchases with larger bills.</li> <li>Encourage students to "spot the error" in different money representations.</li> </ul>	https://www.math- aids.com/Money/Counting_Bills_Tr inidad.html https://youtu.be/6Oo8xwi8TIQ (Lesson can be taught using new TT currency) https://www.youtube.com/watch?v= FRySrcuSLa8 https://www.youtube.com/watch?v= 1MpxAhG-VZI
	Demonstrate an understanding of equivalent relationships using money.	Determine the possible combinations of coins/bills, which are equal to given amounts (up to 100 cents and \$100).	<ul> <li>Practical hands-on activities to show equivalence of money.</li> <li>Cooperative learning to determine equivalence.</li> <li>Independent practice to determine equivalence.</li> <li>Engage in problem solving activities related to equivalence.</li> </ul>	https://www.youtube.com/watch?v= dwuUHMuoxSU (Lesson can be taught using new TT currency)
	Solve problems involving money transactions.	Calculate total cost and the change in money transactions.	<ul> <li>Cooperative learning activities involving the shopkeeper method.</li> <li>Hands-on activities that involve getting change after purchasing a single item using various bills.</li> <li>Hands-on activities that involve calculating total cost and change after purchasing item (s): - use various bills.</li> </ul>	https://www.youtube.com/watch?v= mLSV1PSkJOQ https://www.youtube.com/watch?v= OYMw96NPy0w

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
		Solve real-life, one- step problems involving money, (including profit and loss, best buy, discount, savings, salaries, wages, loans, simple interest, VAT, Hire Purchase, Billings-e.g. telephone, rates and taxes, buying at a sale and otherwise). Include: Rate of pay: i. hourly ii. daily iii. weekly iv. fortnightly v. monthly vi. annual salaries vii. overtime (time and a half, double time) Solve real-life, multi- step problems involving money,	<ul> <li>Use of worksheets to solve problems related to finding total cost and calculation of change.</li> <li>Independent practice.</li> <li>Create and solve real-life, one-step and multi-step problems involving whole numbers, fractions, mixed numbers, decimals, percents and money.</li> <li>Discussion about concepts related to money such as profit and loss.</li> <li>Select and use appropriate estimation strategies to check for reasonableness of answers and use calculators to check answers/solutions.</li> <li>Solve problems in mathematical games.</li> <li>Use Polya's problem solving strategy/approach to solve problems.</li> <li>Model by 'thinking aloud' the process.</li> <li>Cooperative learning to create and solve real-life problems.</li> <li>Engage in practical "real-life" role play activities involving money such as opening a business (e.g., transporting, gardening, shop keeping, store).</li> <li>Independent practice.</li> </ul>	https://www.youtube.com/watch?v= tHF2bXCQ3y4 https://youtu.be/1rejTIaFRvU https://www.basic- mathematics.com/find-regular- hourly-rate.html https://www.youtube.com/watch?v= 4zvjGgaE3KI https://youtu.be/03JX5c2AY8M https://www.youtube.com/watch?v= TSaivwREeAk

ТОРІС	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
		(including profit and loss, best buy, discount, savings, salaries, wages, loans, simple interest, VAT, Hire Purchase, Billings-e.g. telephone, rates and taxes, buying at a sale and otherwise). Include: Rate of pay: i. hourly ii. daily iii. weekly iv. fortnightly v. monthly vi. annual salaries vii. overtime (time and a half, double time)	<ul> <li>Simulation of a shop to role play a Unit Price Game - Are you getting value for money.</li> <li>Discussion about unit prices - finding the unit prices does not give information about the quality of what is bought, but it can help us to make a decision.</li> <li>Hire Purchase <ul> <li>Encourage a discussion about what students understand by Hire Purchase highlighting the use of appropriate vocabulary such as down payment, interest, monthly, total cost.</li> <li>Use an advertisement in a newspaper/magazine to work out the total cost of an item.</li> <li>Have students work out the total cost of an item on Hire Purchase and compare the Cash Price with the Hire Purchase price.</li> <li>Engage the students in a discussion about the merits and demerits of Hire Purchase.</li> <li>Encourage students to do a mini project on the best Hire Purchase option for purchasing an item.</li> </ul> </li> </ul>	

## GEOMETRY

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
Solids	Demonstrate familiarity with pictorial representations of solids.	Name solids from pictorial representations. • cuboid • cube • cylinder • cone • sphere • pyramid • triangular prism	<ul> <li>Explore/investigate and name solids in the environment.</li> <li>Construct models using various solids and name the solids used.</li> <li>Discussion about the solids shown in pictures (including real-life objects such as book, Rubik's cube, party hat, globe, can).</li> <li>Cooperative learning to name and classify solids using concrete materials and pictorial representations.</li> <li>Use of worksheets to name solids represented in pictures in different orientations.</li> </ul>	https://uk.ixl.com/math/year-2/name-the- three-dimensional-shape https://www.bbc.co.uk/bitesize/topics/zb tp34j/articles/zjjkpg8 https://uk.ixl.com/maths/year-2/shapes- of-everyday-objects https://uk.ixl.com/maths/year-2/shapes- of-everyday-objects-ii
	Develop an understanding of the properties of solids.	Draw faces of solids and describe their properties (e.g., shape of faces, number of faces, parallel and perpendicular lines, angles – right, non-right and equal, number of sides).	<ul> <li>Explore/investigate the properties of solids through hands-on manipulation of solids.</li> <li>Construct solids using cut-outs of plane shapes.</li> <li>Cooperative learning to trace, and describe, the faces of solids.</li> <li>Pose questions to students on the properties of solids using 3D shapes and pictures of 3D shapes.</li> <li>Use of videos to show the properties of various examples of solids.</li> </ul>	IXL - Compare vertices, edges and faces         (Year 2 maths practice)         IXL - Identify shapes traced from solids         (Year 2 maths practice)
		Describe the properties of solids in relation to	• Explore the properties of solids through the use of models.	https://uk.ixl.com/maths/year-2/count- vertices-edges-and-faces

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
		number and types of faces, edges and vertices.	<ul> <li>Construct frames of solids using various resources such as plasticine and straws.</li> <li>Journal entry about the properties of solids.</li> <li>Discussion about faces, edges and vertices.</li> <li>Draw/sketch solids and label to show faces, edges and vertices.</li> </ul>	https://uk.ixl.com/maths/year- 2/compare-vertices-edges-and-faces https://www.youtube.com/watch?v=Cn3 QiGlkIRI
		Describe the properties of solids in relation to their cross-sections, base, height and angles.	<ul> <li>Investigate the cross section, base, height and angles of solids through hands-on activities.</li> <li>Investigate right angles and non- right angles in solids.</li> <li>Discussion about the properties of solids.</li> <li>Journal entry to list the properties of solids.</li> </ul>	https://www.mathsisfun.com/geometry/c ross-sections.html https://flexbooks.ck12.org/cbook/ck-12- interactive-geometry-for- ccss/section/1.12/primary/lesson/cross- sections-of-solids-geo-ccss/
		Name the solids with uniform cross-sections.	<ul> <li>Describe the cross-section of solids.</li> <li>Sort and name solids according to those with a uniform cross-section and those that do not have a uniform cross-section.</li> </ul>	https://www.mathsisfun.com/geometry/c uboids-rectangular-prisms.html https://www.bbc.co.uk/bitesize/guides/z w7scj6/revision/1 https://www.youtube.com/watch?v=hlD _j3AtxGs
	Develop an understanding of the nets of solids.	Draw the nets of solids.	• Explore/investigate the nets of solids by engaging in practical activities involving the use of manipulatives/models.	https://jimmymaths.com/understanding- nets-of-solids/

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
			<ul> <li>Cooperative learning to draw, describe and display the nets of solids.</li> <li>Use technology tools to draw the nets of solids.</li> </ul>	https://mathspace.co/textbooks/syllabuses/Syllabus-452/topics/Topic-8359/subtopics/Subtopic-110052/https://www.geogebra.org/m/pCv2EvwDhttps://www.geogebra.org/m/aJv7KdWB#material/kzFjDDEnhttps://flexbooks.ck12.org/cbook/ck-12-cbse-maths-class-8/section/10.3/primary/lesson/visualisati
	Solve problems involving solids.	Solve problems involving solids including problems related to increasing and decreasing geometric patterns.	<ul> <li>Use Polya's problem solving strategy/approach to solve problems.</li> <li>Cooperative learning.</li> <li>Model by 'thinking aloud' the process.</li> <li>Review/check for prior knowledge about geometric patterns and reteach as necessary.</li> </ul>	on-of-3-d-objects/ https://www.youtube.com/watch?v=dx6 4YZbktuo https://mathisvisual.com/growing- geometric-patterns/

ΤΟΡΙΟ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
Plane Shapes	Demonstrate familiarity with pictorial representations of plane shapes.	Name plane shapes from pictorial representations.	<ul> <li>Explore plane shapes in the environment.</li> <li>Match cut-outs of plane shapes to their pictorial representations and name them (squares, triangles, rectangles and circles).</li> <li>Create plane shapes using geostrips and toothpicks and on resources such as geoboards and grid paper.</li> <li>Use worksheets, to identify different plane shapes in pictures, for independent practice.</li> </ul>	Pattern Blocks   Math Playground         https://uk.ixl.com/maths/year-2/name-         the-two-dimensional-shape         https://uk.ixl.com/maths/year-2/select-         two-dimensional-shapes         https://uk.ixl.com/maths/year-2/count-         sides-and-vertices
	Demonstrate an understanding of the different types of triangles.	Identify and name triangles as scalene, right angled, isosceles and equilateral. Describe the properties of triangles in relation to sides, angles and lines of symmetry.	<ul> <li>Review/check for prior knowledge.</li> <li>Explore the properties of triangles through the use of cut-outs and other manipulatives.</li> <li>Discussion about the properties of triangles.</li> <li>Hands-on sorting/classification activities.</li> <li>Guided practice to measure angles in relation to the right angle.</li> <li>Use worksheets, to name and describe the types of triangles, for independent practice.</li> </ul>	https://www.mometrix.com/academy/intr         oduction-to-types-of-triangles/         https://byjus.com/maths/triangles/         https://www.youtube.com/watch?v=1k0         G-Y41jRA         https://e-gmat.com/blogs/properties-of-triangles/
	Develop an understanding of the properties of quadrilaterals.	Identify and name quadrilaterals (rectangles, squares, trapezoids,	<ul> <li>Review/check for prior knowledge.</li> <li>Reteach as necessary using appropriate resources, such as, cut- outs and geoboards.</li> </ul>	Quadrilaterals: Classification - Varsity <u>Tutors</u> <u>https://www.khanacademy.org/math/cc-</u> third-grade-math/quadrilaterals-3rd/imp-

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
		parallelograms, rhombuses). Describe the properties of quadrilaterals.	<ul> <li>Explore the properties of quadrilaterals through the use of cut-outs and other manipulatives.</li> <li>Discussion about the properties of quadrilaterals.</li> <li>Sketch and label quadrilaterals from a given verbal description.</li> <li>Independent practice to name and describe the different quadrilaterals through the use of worksheets.</li> </ul>	quadrilaterals/v/introduction-to-types-of- quadrilateralshttps://www.youtube.com/watch?v=yiR EqzDsMP8https://www.khanacademy.org/math/cc- fifth-grade-math/properties-of- shapes/imp-quadrilaterals- 2/v/quadrilateral-properties
		Classify and compare quadrilaterals according to their attributes (including type of angles, no. of equal sides, no. of pairs of parallel sides, no. of perpendicular sides, lines of symmetry).	<ul> <li>Sort quadrilaterals (rectangles, squares, trapezoids, parallelograms, rhombuses) according to their attributes (e.g., angles, lengths of sides, parallel sides).</li> <li>Guided practice to measure angles and lengths of sides and, hence, classify and compare the quadrilaterals.</li> <li>Discussion about the similarities and differences of quadrilaterals.</li> </ul>	https://www.youtube.com/watch?v=HU SVwQ0UuGI https://www.youtube.com/watch?v=m7 kqf0hm68
	Develop an understanding of the properties of shapes with five and more sides (pentagon,	Identify and name pentagons, hexagons and octagons. Describe the properties of pentagons, hexagons and octagons in relation to sides, angles and lines of symmetry.	<ul> <li>Review/check for prior knowledge.</li> <li>Explore the properties of pentagons, hexagons and octagons through the use of cut-outs and other manipulatives.</li> <li>Discussion about the properties of the shapes.</li> <li>Hands-on sorting/classification activities.</li> </ul>	https://byjus.com/maths/pentagon/         https://www.mathsisfun.com/geometry/s         ymmetry-line-plane-shapes.html         https://www.skillsyouneed.com/num/pol         ygons.html

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
	hexagon, octagon).		• Independent practice to name and describe the different shapes.	
	Demonstrate an understanding of the properties of regular and irregular polygons.	Differentiate between regular and irregular polygons (triangles, quadrilaterals, pentagons, hexagons, octagons).	<ul> <li>Explore/investigate the properties of polygons using manipulatives.</li> <li>Use toothpicks or other materials to create regular and irregular polygons.</li> <li>Name and describe regular and irregular polygons</li> <li>Discussion about the differences between regular and irregular polygons.</li> <li>Cooperative learning to classify, compare, draw and name regular and irregular and irregular polygons.</li> <li>Use computer software to generate shapes.</li> </ul>	https://unacademy.com/content/ssc/study -material/mathematics/differences- between-regular-and-irregular-polygons/ https://www.youtube.com/watch?v=MV MidnAe7SM https://mathmonks.com/polygon/regular- and-irregular-polygons
	Develop an understanding of compound shapes.	Name plane shapes used to create compound shapes (concrete and pictorial representation). Create compound shapes.	<ul> <li>Explore/investigate compound shapes in real-life/nature (e.g., buildings, bridges).</li> <li>Use cooperative learning to create or draw compound shapes and name and describe the plane shapes used.</li> <li>Use worksheets for independent practice.</li> </ul>	https://sciencing.com/make-3d-hexagon- 8709151.html https://www.twinkl.co.uk/teaching- wiki/composite-shape
	Solve problems	Solve problems involving plane shapes including problems	<ul> <li>Use Polya's problem solving strategy/approach to solve problems.</li> </ul>	https://www.youtube.com/watch?v=VVy 7caxUgRA

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
	involving plane shapes.	related to increasing and decreasing geometric patterns.	<ul> <li>Cooperative learning.</li> <li>Model by 'thinking aloud' the process.</li> <li>Review/check for prior knowledge about geometric patterns and reteach, as necessary.</li> </ul>	https://www.studysmarter.co.uk/explanat ions/math/geometry/area-of-plane- figures/
Lines	Develop an understanding of the different types of lines in shapes.	Draw and name different types of lines. Include: • horizontal • vertical • diagonal • curved	<ul> <li>Review/check for prior knowledge.</li> <li>Reteach as necessary using resources such as cut-outs of shapes, geoboards and geo-strips.</li> <li>Use worksheets to identify the different types of lines and name the different types of lines.</li> <li>Explore, and discuss, the different types of lines in shapes.</li> </ul>	https://www.youtube.com/watch?v=k5et rWdIY6o https://byjus.com/maths/lines/
		Differentiate between parallel and perpendicular lines in shapes.	<ul> <li>Review/check for prior knowledge.</li> <li>Reteach as necessary.</li> <li>Cooperative learning to identify parallel and perpendicular lines in shapes.</li> <li>Draw parallel and perpendicular lines and discuss their differences.</li> <li>Journal entry about parallel and perpendicular lines in shapes.</li> <li>Draw shapes using the properties of parallel and perpendicular lines.</li> </ul>	https://www.khanacademy.org/math/cc- eighth-grade-math/cc-8th-geometry/cc- 8th-angles-between-lines/v/identifying- parallel-and-perpendicular-lineshttp://www.differencebetween.net/langu age/difference-between-parallel-and- perpendicular/https://www.youtube.com/watch?v=u11y 2jiojyA

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
Symmetry	Develop an understanding of line symmetry.	Classify shapes into those that are symmetrical and those that are not.	<ul> <li>Investigate plane shapes to determine whether or not they are symmetrical through folding and superimposing activities and/or by using a Mira.</li> <li>Discuss observations made about symmetrical shapes and shapes that are not symmetrical.</li> <li>Create shapes that are symmetrical and those that are not using resources such as cut-outs of shapes, geoboards and grid paper.</li> </ul>	https://www.mathsisfun.com/geometry/s ymmetry-line-plane-shapes.html https://www.mathsisfun.com/geometry/s ymmetry-reflection.html
		Draw lines of symmetry in symmetrical shapes.	<ul> <li>Engage in hands-on activities involving folding and drawing lines of symmetry in cut-outs of shapes.</li> <li>Cooperative learning to determine the number of lines of symmetry in shapes.</li> </ul>	https://www.youtube.com/watch?v=wGy 7jXisNdQ https://www.youtube.com/watch?v=TAf LJLq_q0k
		State the number of lines of symmetry in shapes.	<ul> <li>Discussion about shapes that are symmetrical.</li> <li>Display of shapes with lines of symmetry drawn.</li> <li>Use of worksheets (where shapes are drawn without grids and on grids) for independent practice.</li> </ul>	https://www.splashlearn.com/math- vocabulary/geometry/line-of-symmetry https://www.youtube.com/watch?v=vI23 PrTEIJM
	Solve problems involving line symmetry.	Solve problems involving line symmetry inclusive of completing a symmetrical shape given half of the shape and a line of symmetry.	<ul> <li>Cooperative learning to solve problems and share ideas.</li> <li>Use questioning strategies to elicit the process used to solve problems.</li> <li>Model by 'thinking aloud' the process.</li> </ul>	https://thirdspacelearning.com/gcse- maths/geometry-and-measure/lines-of- symmetry/ https://fuse.education.vic.gov.au/mcc/Cu rriculumItem?code=VCMMG144

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
	2	2 11 2	<ul> <li>Guided instruction to solve problems.</li> <li>Use of worksheets for independent practice.</li> </ul>	
Angles	Demonstrate an understanding of angles in solids and plane shapes.	Describe an amount of turn (e.g., whole turn, three quarter turn, half turn, quarter turn).	<ul> <li>Explore and describe turns in the environment such as the opening and closing of doors and the movement of hands of a clock.</li> <li>Use geo-strips to model and describe turns.</li> </ul>	https://www.youtube.com/watch?v=8r7 D7GFg0kg https://my.homecampus.com.sg/Learn/Pr imary4/Geometry/Angles-Turns-and- Directions
		Describe the quarter turn as a right angle.	• Discussion about the right angle as it relates to a quarter turn and perpendicular lines.	https://www.youtube.com/watch?v=2JSk 0DC5q4g
		Identify and classify angles according to type (acute, right, obtuse, straight and reflex).	• Review of prior knowledge including identifying angles (right angles, angles greater than and smaller than right angles) in regular and irregular polygons and faces of solids.	https://www.vedantu.com/maths/types- of-angles https://www.math-only-math.com/types- of-angles.html
			<ul> <li>Describe angles in the environment, on solids and plane shapes.</li> <li>Engagement in hands-on activities to identify and name angles on faces of solids or plane shapes.</li> <li>Discussion about the different types of angles.</li> <li>Cooperative learning to classify angles.</li> </ul>	https://www.youtube.com/watch?v=lxkq Jc3P40E

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
		Draw angles of various sizes and describe the angles.	<ul> <li>Guided practice to manipulate drawing tools.</li> <li>Engagement in hands-on activities involving the drawing of angles.</li> <li>Cooperative learning for practice.</li> </ul>	https://www.youtube.com/watch?v=_erF 7VM5-zI https://www.youtube.com/watch?v=3NH nTHhnv8g https://www.youtube.com/watch?v=O3V 2AdwoBBU
		Draw shapes with angles of various sizes and describe the angles.	<ul> <li>Cooperative learning.</li> <li>Create shapes on geoboards.</li> <li>Journal entry with drawings of different shapes with descriptions.</li> <li>Use worksheets to solve problems involving the drawing of shapes.</li> </ul>	https://www.youtube.com/watch?v=gr3a uGI9_mY

## **MEASUREMENT**

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
Linear Measure 1. Length	Understand that linear measure can be quantified using standard units (km, m, cm, mm.)	Select and use the most appropriate standard unit for measuring various lengths/distances.	<ul> <li>Review/check for prior knowledge.</li> <li>Cooperative learning to engage in practical activities using non-standard and standard units and using various linear resources including rulers and measuring tape.</li> <li>Use of technology tools to conduct research related to the use of measures in the community and the need for standard units of measures.</li> <li>Explain the need for standard units of measures.</li> <li>Performance task - journal writing about the need for standard units of measures.</li> <li>Discussion about the different units used to measure length and the different instruments (including the trundle wheel).</li> <li>Explain the suitability of the unit as it relates to the length to be measured.</li> </ul>	https://www.youtube.com/watch?v=pGyf1Yx cdXc https://www.youtube.com/watch?v=AVC- 426M6V0 https://www.youtube.com/watch?v=4sBC3ojd 6CE

ΤΟΡΙΟ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
		Measure and record lengths of objects and lines using standard units.	<ul> <li>Hands-on activities related to the measuring of lengths of objects and recording the measure.</li> <li>Direct instruction and demonstration on the appropriate use of measuring instruments.</li> <li>Use of worksheets to measure and record the lengths of drawn objects and lines.</li> </ul>	https://www.youtube.com/watch?v=Mw7Jzhy 8YxI https://www.youtube.com/watch?v=0YqMjjE MMmE https://www.youtube.com/watch?v=tuBLuIW 1U70
		Draw lines of various lengths.	<ul> <li>Demonstration on the use of measuring instruments to draw lines of various lengths.</li> <li>Independent practice to draw lines of given lengths.</li> <li>Draw basic shapes with straight lines and state the lengths of the lines.</li> </ul>	https://www.youtube.com/watch?v=_sEouQE MQbA https://www.youtube.com/watch?v=mCAoB7 dkfHI
	Understand the relationship between units of measure.	Convert linear measure from one form to the other (millimetres, centimetres, metres, kilometres). • millimetres to centimetres and vice versa	<ul> <li>Cooperative learning to explain the relationships between the sub-units of the metric system.</li> <li>Review of multiplication and division by 10, 100 and 1000.</li> <li>Display of student-created conversion charts.</li> <li>Direct instruction to demonstrate and explain how</li> </ul>	https://www.youtube.com/watch?v=kOJFSH         Bn9U         https://www.youtube.com/watch?v=Q-         O1HeobVEs         https://www.youtube.com/watch?v=DNEai7aJ         yy4

TOPIC	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
		<ul> <li>centimetres to metres and vice versa</li> <li>metres to kilometres and vice versa.</li> </ul>	<ul> <li>linear measures are converted from one unit to another.</li> <li>Cooperative learning and independent practice using worksheets.</li> </ul>	
	Develop an understanding of the comparison of lengths.	Compare and order lengths.	<ul> <li>Cooperative learning to share ideas on the procedure used to compare and order lengths in ascending or descending order.</li> <li>Use questioning strategies to determine students' understanding.</li> <li>Direct instruction.</li> <li>Independent practice using worksheets.</li> </ul>	https://www.youtube.com/watch?v=jI_a2ySpi _4 https://www.youtube.com/watch?v=6I5P19Lc G1s https://www.youtube.com/watch?v=mhtpFvN biPE
	Develop an understanding of approximation and estimation of lengths.	Approximate lengths to the nearest metre and centimetre.	<ul> <li>Review of prior knowledge of rounding rules.</li> <li>Cooperative learning to approximate lengths.</li> <li>Independent practice using worksheets.</li> </ul>	https://www.youtube.com/watch?v=t1NbcEZ Zq9U https://www.youtube.com/watch?v=IOgTCpu JJRg
		Estimate lengths in centimetres and metres and verify results and determine	• Collaborate in groups to estimate the lengths of objects and measure the lengths of the objects.	https://www.youtube.com/watch?v=d5awyeF 10cs https://www.youtube.com/watch?v=fcA12g92 NyY

ΤΟΡΙΟ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
		reasonableness of estimates.	<ul> <li>Group presentations on procedures used to estimate lengths.</li> <li>Discussion on the reasonableness of the estimates made.</li> <li>Engagement in self-monitoring practical activities related to the development of estimation skills.</li> </ul>	https://www.mathworksheets4kids.com/length .php
	Solve problems involving linear measure.	Solve computational and real-life problems involving length.	<ul> <li>Cooperative learning to solve problems and share ideas.</li> <li>Group presentation of solutions and strategies used.</li> <li>Journal writing about problem solving activities.</li> <li>Use questioning strategies to elicit the process used to solve problems.</li> <li>Model by 'thinking aloud' the process.</li> <li>Guided instruction to solve problems.</li> <li>Use of worksheets for independent practice.</li> </ul>	https://www.youtube.com/watch?v=DNEai7aJ yy4 https://www.youtube.com/watch?v=Ei5mgFt UGns https://www.youtube.com/watch?v=0x4hi513 D6g

ΤΟΡΙΟ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
2. Perimeter	Develop a conceptual understanding of perimeter.	Calculate the perimeter of plane shapes.	<ul> <li>Explore/investigate the concept of 'distance around' using the environment and manipulatives including cutouts of shapes.</li> <li>Cooperative learning to measure the perimeter of regular and irregular shapes including shapes created on geoboards and drawn on grid paper.</li> <li>Independent practice to calculate the perimeter of shapes.</li> </ul>	https://www.youtube.com/watch?v=AAY1bsa zcgM https://www.youtube.com/watch?v=zYronum Sj6Q
		Draw plane shapes given the perimeter.	<ul> <li>Cooperative learning to create shapes on geoboards and draw shapes on paper (including grid paper) given the perimeter.</li> <li>Use questioning strategies to elicit the process used to draw plane shapes of a given perimeter.</li> <li>Group presentations and display of shapes drawn.</li> <li>Independent practice using worksheets.</li> </ul>	https://www.youtube.com/watch?v=gokSmir Q3bg https://classroom.thenational.academy/lessons /draw-shapes-of-a-given-perimeter-6dh6cd
	Develop and apply formulae for	Calculate the perimeter of squares and rectangles using formulae.	• Cooperative learning guided discovery activities to discover the formulae for	https://www.youtube.com/watch?v=K_aR9B4 tKFk

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
	measurement of perimeter.		<ul> <li>calculating perimeter of squares and rectangles.</li> <li>Use guided questions to elicit how the rules were determined.</li> <li>Cooperative learning and independent practice to apply the rules in calculating perimeter of shapes.</li> </ul>	
	Solve problems involving perimeter.	Solve problems in real-life contexts involving perimeter.	<ul> <li>Use Polya's problem solving strategy/process to solve problems.</li> <li>Problem solving activities using Virtual Learning Environments/Learning Management Systems.</li> <li>Cooperative learning to solve problems and share ideas.</li> <li>Use questioning strategies to elicit the process used to solve problems.</li> <li>Model by 'thinking aloud' the process.</li> <li>Guided instruction to solve problems.</li> <li>Use of worksheets for independent practice.</li> <li>Engage students in creating and posing problems for the class to solve.</li> </ul>	https://www.youtube.com/watch?v=uuLCfn_0 OHs https://www.youtube.com/watch?v=KcgbDnI QkJY

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
Area	Understand that area can be quantified using standard units (m <sup>2</sup> , cm <sup>2</sup> .)	Calculate the area of shapes by counting squares.	<ul> <li>Review/check for prior knowledge.</li> <li>Explore/investigate the concept of area using surfaces in the environment and manipulatives including cut-outs of shapes, grid paper and geoboards.</li> <li>Cooperative learning to engage in practical activities using the standard units and covering surfaces with cut- outs of the standard units and recording the measure of the area of the surfaces.</li> <li>Discussion about the different units used to measure area.</li> <li>Explain the suitability of the unit as it relates to the area to be measured.</li> <li>Direct instruction and demonstration on the appropriate use of the units of measure (e.g., placing the cut-outs of same sized units end-to-end without leaving gaps and without</li> </ul>	https://www.youtube.com/watch?v=E3xWiV Yba3A https://www.youtube.com/watch?v=_uKKl8R 1xBM
		Calculate the area of shapes drawn on a grid with unit squares	<ul> <li>Overlapping).</li> <li>Cooperative learning to calculate the area of shapes including shapes created on</li> </ul>	https://www.youtube.com/watch?v=oL9iF9Se 6lc

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
		(including compound shapes).	<ul><li>geoboards and drawn on grid paper.</li><li>Independent practice to calculate the area of shapes.</li></ul>	https://www.youtube.com/watch?v=rc0t4ZiPq JA
		Draw different shapes of a given area on grids.	<ul> <li>Cooperative learning to create shapes on geoboards and draw shapes on grid paper given the area.</li> <li>Use questioning strategies to elicit the process used to draw plane shapes of a given area.</li> <li>Group presentations and display of shapes drawn.</li> <li>Independent practice using worksheets.</li> </ul>	<u>www.youtube.com/watch?v=UbRVeYYJM9</u> <u>M</u>
	Develop and apply formulae for measurement of area.	Calculate the area of squares and rectangles using formulae.	<ul> <li>Cooperative learning guided discovery activities to discover the formulae for calculating area of squares and rectangles.</li> <li>Use guided questions to elicit how the rules were determined.</li> <li>Cooperative learning and independent practice to apply the rules in calculating area of shapes.</li> </ul>	https://www.youtube.com/watch?v=E3xWiV Yba3A https://www.youtube.com/watch?v=_uKK18R 1xBM
		Calculate the area of compound shapes.	• Cooperative learning and independent practice to calculate the area of	https://www.youtube.com/watch?v=z4Lat1uO QI4

ΤΟΡΙΟ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
	Solve problems involving area.	Solve problems in real-life contexts involving area. Include: • carpeting • brick laying • tiling • gardens e.g., size of garden, plots, garden paths	<ul> <li>compound shapes by dissecting them into squares and rectangles.</li> <li>Use questioning strategies to elicit the process used to calculate the area.</li> <li>Activate prior knowledge of area of plane shapes.</li> <li>Engage students in cooperative learning activities related to area and involving the use of tangrams.</li> <li>Cooperative learning to share problem solving strategies.</li> <li>Use Polya's Problem Solving Strategy.</li> <li>Problem solving activities using Virtual Learning Environments/Learning Management Systems.</li> <li>Use worksheets or textbooks with problems.</li> </ul>	www.youtube.com/watch?v=A3UCsiJkyDg https://www.youtube.com/watch?v=1VbihcPl FQg
Capacity and Volume	Understand that capacity and volume can be quantified using standard units.	Measure and record the capacity of containers using standard units (litre and millilitre).	<ul> <li>Hands-on activities related to the measuring of the capacity of containers and recording the measure.</li> <li>Display of containers (such as boxes and measuring cups) of various capacity.</li> </ul>	www.youtube.com/watch?v=_ouNQqyDASk

ΤΟΡΙΟ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
		Measure and record the volume of boxes and constructed models using 1 cm cubic blocks and 1 m cubic blocks.	<ul> <li>Hands-on activities related to the measuring of the volume of boxes by filling with cubic blocks (of various sizes initially) and recording the measure.</li> <li>Explain the need for standard units of measure and engage students in activities using the standard units to measure volume.</li> <li>Cooperative learning to construct models using cubic blocks and recording the volume of the model.</li> <li>Construct different models or solids using the same number of cubic blocks and verify that the volume remains the same by counting and explaining that solids with different appearances may have the same volume.</li> </ul>	www.youtube.com/watch?v=RxkRIIAucMk www.youtube.com/watch?v=BbLH8R1mHo www.youtube.com/watch?v=RmXVY8V6gE 8 www.youtube.com/watch?v=-8LbKdRPyV4
	Understand the relationship between units of measure.	Convert litres to millilitres and vice versa.	<ul> <li>Explain the relationship between the litre and millilitre.</li> <li>Guided or direct instruction to demonstrate and explain how measures are converted from one unit to another.</li> </ul>	https://www.youtube.com/watch?v=djTNUp4 XIRo www.youtube.com/watch?v=b3rcIj-geuY www.youtube.com/watch?v=ToGNq7Tf3GY

ΤΟΡΙΟ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
			<ul> <li>Cooperative learning and independent practice using worksheets.</li> </ul>	
	Understand that capacity and volume are related.	State the relationship between the units for volume and capacity.	<ul> <li>Investigate the relationship between capacity and volume through filling plastic containers with cubic centimetre blocks and liquid and comparing the results, or via displacement of liquid in a measuring cup by a cubic centimetre block.</li> <li>Explain that there is a corresponding relationship between the units that are used to measure capacity and units that are used to measure volume. (1 ml = 1 cm<sup>3</sup> and 1000 ml = 1000 cm<sup>3</sup> = 1 L).</li> </ul>	www.youtube.com/watch?v=GKCE8ohIBqE www.youtube.com/watch?v=dtCM56EBeBo www.youtube.com/watch?v=tvHvurOHVdY www.youtube.com/watch?v=028tWJGCSdM
	Develop and apply formula for measurement of volume.	Calculate the volume of cubes and cuboids using the formula.	<ul> <li>Cooperative learning guided discovery activities to discover the formula for calculating volume of cubes and cuboids.</li> <li>Use guided questions to elicit how the rules were determined.</li> <li>Cooperative learning and independent practice to apply the rules in calculating volume of solids.</li> </ul>	www.youtube.com/watch?v=MLgrbWEdCCk www.youtube.com/watch?v=J3MyJmgypUc https://youtu.be/x8zQNnTwmLY https://www.mathworksheets4kids.com/volum e-cubes.php

TOPIC	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
	Solve problems involving capacity and volume.	Solve real-life problems involving capacity and volume.	<ul> <li>Use of Polya's Problem Solving Strategy.</li> <li>Cooperative learning to solve problems and share ideas.</li> <li>Use questioning strategies to elicit the process used to solve problems.</li> <li>Model by 'thinking aloud' the process.</li> <li>Guided instruction to solve problems.</li> <li>Use of worksheets for independent practice.</li> </ul>	www.youtube.com/watch?v=tBBNbExCWY4 www.youtube.com/watch?v=_m1MJA_7AXs www.youtube.com/watch?v=RP5LsnG-bYM
Mass and Weight	Understand that mass/weight can be quantified using standard units (kg, g).	Measure and record mass/weight of objects using standard units.	<ul> <li>Hands-on activities related to the measuring of mass/weight of objects using various measuring instruments (such as equal arm balances and scales) and recording the measure.</li> <li>Explain the suitability of the unit as it relates to the mass/weight to be measured.</li> <li>Discussion about the different instruments used to measure mass/weight.</li> <li>Demonstrate the different ways that measurements can be recorded (e.g., 3 kg and 100 g, or 3 <sup>1</sup>/<sub>10</sub> kg or 3.1 kg).</li> </ul>	www.youtube.com/watch?v=A0DdQe66_aY www.youtube.com/watch?v=mGMtyuVJ5to www.youtube.com/watch?v=rEb_P8ZGxd4 www.teachingmeasures.co.uk

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
			• Use of worksheets to record the mass/weight of objects shown on various measuring instruments.	
	Understand the relationship between units of measure.	Convert kilograms to grams and vice versa.	<ul> <li>Cooperative learning to explain the relationship between the kilogram and the gram.</li> <li>Direct instruction to demonstrate and explain how measures are converted from one unit to another.</li> <li>Cooperative learning and independent practice using worksheets.</li> </ul>	https://www.youtube.com/watch?v=z- iSpbO3eU0 https://www.youtube.com/watch?v=djTNUp4 XIRo www.youtube.com/watch?v=mGMtyuVJ5to
	Develop an understanding of the comparison of mass/weight.	Compare and order mass/weight.	<ul> <li>Cooperative learning to share ideas on the procedure used to compare and order mass/weight in ascending or descending order.</li> <li>Use questioning strategies to determine students' understanding.</li> <li>Direct instruction.</li> <li>Independent practice using worksheets.</li> </ul>	http://nrich.maths.org/public/ www.youtube.com/watch?v=ivAD44nh0D0
	Solve problems involving mass/weight.	Solve computational and real-life problems involving grams and kilograms.	<ul> <li>Use of Polya's Problem Solving Strategy.</li> <li>Cooperative learning to solve problems and share ideas.</li> </ul>	https://www.youtube.com/watch?v=xK6j5Bn VIdo http://nrich.maths.org/public/

ΤΟΡΙΟ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
	Understand that time can	Write the time shown	<ul> <li>Use questioning strategies to elicit the process used to solve problems.</li> <li>Model by 'thinking aloud' the process.</li> <li>Guided instruction to solve problems.</li> <li>Use of worksheets for independent practice.</li> <li>Review of previous knowledge including the</li> </ul>	www.mathisfun.com/time-clocks-analog-
Time	that time can be quantified.	on digital and analog clocks (including the 24-hour clock) to the minute.	<ul> <li>knowledge including the features of analog and digital clocks and using terms such as "minutes to", "minutes after or past", "quarter to", "half past", "o'clock", "a.m." and "p.m."</li> <li>Guided practice in the telling of time using various clocks and the recording of time.</li> <li>Use of worksheets for independent practice.</li> </ul>	<u>digital.html</u> <u>www.youtube.com/watch?v=fRkqE6wV0uk</u>
		Match times displayed on standard digital clocks, 24-hour digital clocks and analog clocks to the minute.	<ul> <li>Cooperative learning in the telling of time and representing it using different clocks.</li> <li>Guided practice to show the same time using the three different clocks.</li> <li>Use of worksheets for independent practice.</li> </ul>	www.maths-games.org https://www.scootle.edu.au/ec/viewing/L9646 /index.html#

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
		Measure and record the duration of events using clocks. Show the time after given time intervals on analog and digital clocks.	<ul> <li>Hands-on activities related to measuring the duration of events, practically.</li> <li>Cooperative learning.</li> <li>Engagement in activities where the start time or end time of an activity is stated together with the time taken to do the activity and the end time or start time has to be displayed on a clock.</li> <li>Cooperative learning and independent practice.</li> </ul>	www.maths-games.org         www.teachingideas.co.uk/subjects/maths         www.maths-games.org         www.teachingideas.co.uk/subjects/maths         www.teachingideas.co.uk/subjects/maths         www.youtube.com/watch?v=ttSQQdeDjeM
		Calculate the duration of events using starting and finishing times (elapsed time).	<ul> <li>Cooperative learning to determine duration of events.</li> <li>Discussion to share strategies used to determine the elapsed time.</li> <li>Independent practice to record measurements using various formats, e.g., 3 hr and 30 min, 3 <sup>1</sup>/<sub>2</sub> hrs or 3.5 hrs.</li> </ul>	https://www.youtube.com/watch?v=zjz_rcia7 9Y www.youtube.com/watch?v=ML6r7BEZo7M www.youtube.com/watch?v=sFERcs2oEVk www.youtube.com/watch?v=e1156frbqZE www.youtube.com/watch?v=oIbpR_RFDWs
	Understand the relationship between units of measure.	Convert from one unit to another (seconds/minutes, minutes/hours, hours/days, days/weeks, days/month,	<ul> <li>Cooperative learning to explain the relationship between the units of measure.</li> <li>Direct instruction to demonstrate and explain how measures are converted from one unit to another.</li> </ul>	https://www.youtube.com/watch?v=zjz_rcia7 9Y https://www.youtube.com/watch?v=QU- XUmujbuM https://www.youtube.com/watch?v=gGo6t6Z0 rCg

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
		weeks/months, months/years).	• Cooperative learning and independent practice using worksheets.	
	Develop an understanding of the comparison of the duration of events.	Compare and order activities/events according to time taken.	<ul> <li>Cooperative learning to share ideas on the procedure used to compare and order activities according to time taken, in ascending or descending order.</li> <li>Use questioning strategies to determine students' understanding.</li> <li>Direct instruction.</li> <li>Independent practice using worksheets.</li> </ul>	https://www.youtube.com/watch?v=SdpSgBj4 Fog http://www.primaryresources.co.uk/maths www.youtube.com/watch?v=HHYcqJQrp-4
	Demonstrate an understanding of time schedules.	Sequence activities or events according to time of occurrence.	<ul> <li>Cooperative learning to share ideas on the procedure used to sequence activities according to time of occurrence.</li> <li>Use questioning strategies to determine students' understanding.</li> <li>Direct instruction.</li> <li>Independent practice using worksheets.</li> </ul>	https://ucmp.berkeley.edu/fosrec/Scotchmoor <u>Time.html</u>
		Interpret simple time schedules (e.g., the calendar).	<ul> <li>Use questioning strategies to determine students' understanding.</li> <li>Cooperative learning involving students</li> </ul>	https://www.youtube.com/watch?v=SZv_a0fj DfE www.youtube.com/watch?v=wS4wwaDrCic

TOPIC	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	RESOURCES/MATERIALS
			<ul> <li>formulating and answering questions on time schedules.</li> <li>Independent practice in the interpretation of time schedules in worksheets.</li> </ul>	
	Solve problems involving time.	Solve computational and real-life problems involving time and other related concepts.	<ul> <li>Use of Polya's Problem Solving Strategy.</li> <li>Cooperative learning to solve problems and share ideas.</li> <li>Use questioning strategies to elicit the process used to solve problems.</li> <li>Model by 'thinking aloud' the process.</li> <li>Guided instruction to solve problems.</li> <li>Use of worksheets for independent practice.</li> </ul>	http://nrich.maths.org/public/ www.youtube.com/watch?v=2-grQFqvHN0 www.youtube.com/watch?v=02w1yI9y8dY

## STATISTICS

ΤΟΡΙϹ	GENERAL OUTCOMES	CONTENT SCOPE/SPECIFIC OBJECTIVES	INSTRUCTIONAL STRATEGIES	<b>RESOURCES/MATERIALS</b>
Tally Charts, Frequency Tables, Pictographs, Block Graphs and Bar Graphs	Demonstrate the ability to collect, classify, organise and represent data using Tally Charts/Frequency Tables/Pictographs/ Block Graphs/Bar Graphs.	Tally ungrouped discrete data into a frequency table.	<ul> <li>Cooperative learning to collect and classify data based on the investigation of a problem, question or reallife situation using surveys, questionnaires, experiments and other sources.</li> <li>Use worksheets to tally data into frequency tables.</li> <li>Reteach as necessary using resources such as objects, pictures, grid paper and geoboards.</li> </ul>	https://www.youtube.com/watch?v=R6m80 QAQzPk https://www.youtube.com/watch?v=_xXJSD xRZP4 https://www.youtube.com/watch?v=mukk8Z aettg
		Represent data using tally charts, frequency tables and graphs (pictographs, block graphs, bar graphs) using various scale factors.	<ul> <li>Activate prior knowledge about the features/characteristics of charts, tables and graphs, and scale factors.</li> <li>Guided instruction to create representations.</li> <li>Discussion to elicit justification for scale factors used.</li> <li>Independent practice to construct representations.</li> <li>Use technology tools to create data displays.</li> <li>Engage students in self- assessment (self-monitoring)</li> </ul>	https://www.youtube.com/watch?v=fNpvOwM6K5chttps://www.youtube.com/watch?v=4sMtOfNa5H8https://www.youtube.com/watch?v=yyy2uYxzcbMhttps://www.youtube.com/watch?v=COYWXSfKqaAhttps://www.youtube.com/watch?v=J2DKgCf353khttps://www.youtube.com/watch?v=FedQKVvd8tU

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	Draw conclusions or make decisions from data displays.	Interpret the data displayed in charts, tables and graphs (including tally charts, frequency tables, pictographs, block graphs and bar graphs).	<ul> <li>activities using a customised math error self-correction checklist.</li> <li>Use questioning strategies to determine students' understanding.</li> <li>Cooperative learning involving students formulating and answering questions on data displays.</li> <li>Collaborate in groups to collect samples of statistical representations or data displays on real-world phenomena and analyse the data so as to make decisions about the real-life situation or problem.</li> <li>Group presentations to justify decisions made.</li> <li>Independent practice in the interpretation of data displays in worksheets.</li> </ul>	https://www.youtube.com/watch?v=IjcLW7 Y7Ndkhttps://www.youtube.com/watch?v=p4oOtkL vdGEhttps://www.youtube.com/watch?v=0M76X CRwiIUhttps://www.youtube.com/watch?v=oQ7NE GBeIfMhttps://www.youtube.com/watch?v=oQ7NE y=oQ7NE y=0HfMhttps://www.youtube.com/watch?v=yRu2Nm uM4EY

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Mean, median and mode	Determine measures of central tendency.	Calculate the mode of a given set of data.	<ul> <li>Review/check for prior knowledge about mode.</li> <li>Reteach as necessary.</li> </ul>	https://www.youtube.com/watch?v=khP3ge7 a2Yk https://www.youtube.com/watch?v=xObCUy tIVMo https://virtualnerd.com/middle- math/probability-statistics/mean-median- mode-range/mode-data-set
		Find the mode for data taken from frequency tables and graphs.	Guided instruction and independent practice.	https://thirdspacelearning.com/gcse- maths/statistics/mode-from-a-frequency- table/ https://www.youtube.com/watch?v=57XQTd rCinM https://www.youtube.com/watch?v=4LPSqrn 26Ec
		Calculate the mean of a given set of data.	<ul> <li>Explore the concept of mean using various activities related to equal sharing or distribution.</li> <li>Journal writing to explain the concept of mean.</li> <li>Guided instruction to determine the rule for calculating the mean.</li> <li>Use of worksheets for independent practice.</li> </ul>	https://www.youtube.com/watch?v=UYGdc mr_oIE https://blog.prepscholar.com/how-to-find- the-mean https://www.youtube.com/watch?v=0io9U8J cjeo https://www.youtube.com/watch?v=H7u0Zrr a060

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			• Use of technology tools e.g., spreadsheets, for checking answers.	
		Calculate the median of a given set of data.	• Guided instruction using frequency distributions to calculate the median.	https://www.indeed.com/career- advice/career-development/how-to-find-the- median
				https://www.youtube.com/watch?v=qglJSIp6 n7M&list=PLiT3pCvK_cfXIGQ5FLXEW01 r2f2fQSOtR&index=2
				https://www.youtube.com/watch?v=0SYsi38 XucI
				https://www.youtube.com/watch?v=cc7ELv2 _Xww
				https://www.youtube.com/watch?v=4kS8J4q 8pC8
	Solve problems involving measures of central tendency.	Solve problems involving mode, median and mean.	<ul> <li>Use questioning strategies to elicit the process used to solve problems.</li> <li>Use Polya's problem solving strategy/process to solve problems.</li> <li>Model by 'thinking aloud' the process.</li> <li>Discussion to justify process used to solve problems.</li> <li>Cooperative learning using problem solving worksheets.</li> </ul>	https://youtu.be/k3aKKasOmIw https://www.youtube.com/watch?v=oatwXIZ BPw0&t=7s https://www.youtube.com/watch?v=6DYtC71 rVuY https://www.youtube.com/watch?v=B1HEzN TGeZ4

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			<ul> <li>Engage students in creating and posing problems for the class to solve.</li> <li>Use worksheets for independent practice.</li> </ul>	https://www.youtube.com/watch?v=A8_H6h vBmA4 https://www.youtube.com/watch?v=5xoEhW pupFY
				https://www.youtube.com/watch?v=qpbaglo gObM
				https://www.youtube.com/watch?v=XXlgx7 oeTpQ
				https://www.youtube.com/watch?v=sqMFGn dF4ak https://www.youtube.com/watch?v=PleS4N wNnQ8