Reform Presbyterian Primary School

Project: Let's Play (Robbie the Robot)

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does/a Little History

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Introduction

• The first toy robot was invented in 1954 by George Devol.

• A robot is a type of automated machine that can execute specific tasks with little or no human intervention.

• There are many types of robots such as: wheeled robots, legged robots, flying robots, swimming robots and micro robots, etc.

• I designed and created a four-wheeled toy robot that can proceed forward and backward with movable arms. I chose the wheeled robot as it is more efficient compared to the legged robot.

Material Acquisition

- 1. Cardboard
- 2. Straws
- 3. Marker
- 4. Styrofoam
- 5. Pallet sticks
- 6. Water paint
- 7. Hot glue
- 8. Skewer sticks
- 9. Foil paper

- **10. Electric circuit board**
- **11. Paper**
- 12. Googly eyes
- 13. Motors
- **14. Electric wires**
- 15. 'AA' batteries
- 16. 9 volts battery



*****Construction

- 1. Cut and attach 5 pieces of cardboard (each 12cm by 12cm), leaving the top of the structure open.
- 2. Attach skewer sticks to the first motor, then link it to the wheels and also join the motor to the circuit board with wires.
- 3. Fasten the second motor, that controls the arms, to the circuit board.
- 4. The circuit board is powered by the 9 volts battery that is attached to a switch.
- 5. Cut two oval pieces of cardboard and assemble the head. Stick the head to the top cover and mend it to the top to complete the structure. (Paint)







Robbie the Robot is powered up by turning on the switch which activates the 9 voltage battery; then the circuit board is energized. It is controlled by the wireless remote that allows it to proceed forward and to reverse. Also, the remote control can move his arms side to side.



