Name: 
Partners: 

Forces
A force is an action that is exerted on another to make it move; it can be direct or indirect. Magnets exert a force that is an indirect force. A magnet is made of metal that has a charge giving it a positive or negative attractive force. When forces push against each other it is called a repelling force.

Draw a picture of a magnet showing the positive and negative forces attract and repel against each other:

Your STEM challenge: To create a table maze to move a magnetised ball.
1. Measure and cut 9 lengths of masking tape into these lengths.
   - 4 x 10cm length
   - 2 x 20 cm length
   - 3 x 30 cm length

Plan: Draw a bird’s eye view of your table.
Moving objects: Move the magnetised ball using the indirect force of a magnet.

1. Think about how forces moved the magnet.
2. Use a labelled diagram to show how this worked. Use direction arrows to show how the force moved the object: → ← ↖ ↗ ↘ ↖ ↘

Experiment: How forces worked to move the ball through the maze.

Reflect: What did you learn about forces today? Use these key words: direct, indirect, attract, repel, push, pull, move, magnet, force, movement.