

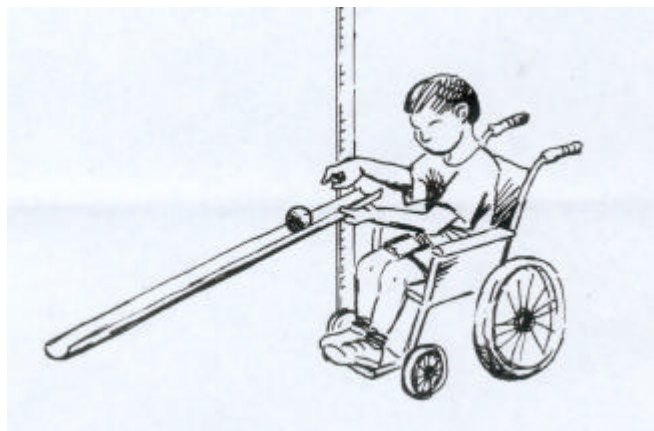
Key Stage 2 Sc4 Forces and Motion

Kinaesthetic Learning Activity Cards

Learning Objective Pupils should be taught:	2.b That objects are pulled downwards because of the gravitational attraction between them and the earth.
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Kinaesthetic Learning Activity

Resources
• Metre rules • Plastic tubes or guttering pipes • Tape measure (10 metre or possibly more) • Chalk • Tennis balls (or similar) and air flow balls



- Roll a ball down the tube and observe what happens. Repeat this with the tube held at different heights.
- Now use a metre ruler to measure the height at which the ball starts and the distance it travels.
Repeat this for a number of different heights and record your results in a table.

Height	Distance Traveled Tennis Ball	

Class Based Follow – up

- Present your findings as a graph (if you find this difficult ask your teacher to complete the axis for you).
- Answer the following questions in your science book:
 1. What force is making the ball travel down the pipe?
 2. Is the ball being pulled or pushed?
 3. Does the ball travel the same distance for each of the heights that it starts at?
 4. Give reasons to your answer to question three.

Extension work

Using the computer, enter the data from your table into a spreadsheet and create a chart.

Did you know!

There is a bowls type game called **boccia**, which involves sending balls down a plastic pipe.

The game is a paralympic sport played by people who have cerebral palsy, but it has also been promoted by the British Boccia Association as a game for all, with around 60 teams competing annually in the National Boccia League.