

Living things and their habitats	Animals including humans	Properties and change of materials	Earth and Space	Forces
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Year 5 - Forces

Knowledge

- To know that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.
- To know the effects of air resistance, water resistance and friction that act between moving surfaces.
- To know that some mechanisms, including pulleys and gears, allow a smaller force to have a greater effect.

Skills

- **using test results to make predictions to set up further comparative and fair tests**
 This could be achieved by... carrying out initial investigations into air resistance and using results to create a new question related to water resistance (e.g. can findings from air resistance to applied to water resistance) to create new question to investigate.

 (Comparative and Fair Testing)
- **reporting and presenting findings from causal relationships.**
 This could be achieved by measuring of time/distance of paper aeroplane to investigate air resistance, recording velocity. Reporting findings on the surface area of a spinner/ parachute and the time taken to fall to the ground.

 Presenting findings to class in a more formal style.

 (Pattern Seeking)

<u>Vocabulary</u>	
Gravity	Mechanisms
Resistance	Levers
Air resistance	Pulleys
Water resistance	Gears

Pre-loading

Materials and their properties – discuss which materials would be suitable for a magnet