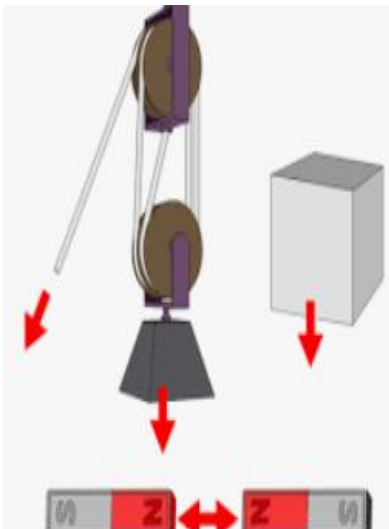


Children at the heart of our unique community becoming aspirational, reflective and independent learners for life

Topic:	Skills and Knowledge	<u>Key Vocabulary</u>
<p>Forces</p> 	<p><b>Magnets</b></p> <ul style="list-style-type: none"> <li>Describe magnets as having two poles.</li> <li>Predict whether two magnets will attract or repel each other, depending on which poles are facing.</li> </ul> <p><b>Forces</b></p> <ul style="list-style-type: none"> <li>Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.</li> <li>Identify the effect of drag forces, such as air resistance, water resistance and friction that act between moving surfaces.</li> <li><i>Describe, in terms of drag forces, why moving objects that are not driven tend to slow down.</i></li> <li><i>Understand that force and motion can be transferred through mechanical devices such as gears, pulleys, levers and springs.</i></li> <li>Understand that some mechanisms including levers, pulleys and gears, allow a smaller force to have a greater effect.</li> </ul> <p><b>Ongoing</b></p> <ul style="list-style-type: none"> <li>Plan enquiries, including recognising and controlling variables where necessary.</li> <li>Use appropriate techniques, apparatus, and materials during fieldwork and laboratory work.</li> <li>Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, bar and line graphs, and models.</li> <li>Report findings from enquiries, including oral and written explanations of results, explanations involving causal relationships, and conclusions.</li> </ul>	<p>Force, push, pull, gravity, air-resistance, magnetism, water-resistance, friction;</p> <p>lever, pulley, gear, Newton, Newton Meter, drag;</p> <p>fair test, variable, predict, conclusion.</p>
Subject:	Duration	<u>Celebration:</u>
Science	2 weeks	Drama session: losing Forces.
<u>Things to support learning at home:</u>		<u>Focus Value/Learning Power:</u>
Talk about forces in everyday life, e.g. supermarket trolleys, tin-openers, etc. Discuss the direction the forces are acting.		Curiosity: asking questions and investigating answers.

	Justice: make links about forces having equal but opposite reactions, and link with justice.
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