



## ALMOND HILL JUNIOR SCHOOL MEDIUM TERM PLAN

TOPIC TITLE/SUBJECT: Science – Forces and Magnets

YEAR GROUP: 3

TERM Autumn 1

<p><b>Vocabulary</b> force, push, pull, gravity fair test, investigate, contact, magnet, magnetism, magnetic, non-magnetic attract, attraction, repel, repulsion, poles, north, south, time, record, force results, table, theory, measure</p>	<p><b>Skills (<i>key skills for the unit in bold</i>)</b></p> <ul style="list-style-type: none"><li>• <b>Design a fair test</b></li><li>• Asking relevant questions</li><li>• Observing outcomes</li><li>• <b>Taking accurate measurements</b></li><li>• <b>Gather and record data accurately</b></li><li>• Interpret data to lead to a conclusion</li></ul>	<p><b>What we already know</b></p> <p><u>KS1 – Knowledge</u></p> <ul style="list-style-type: none"><li>• Y2/Sp1 - Shapes of solids objects can be changed by squashing, bending, twisting and stretching</li><li>• Y2/Sp1 – What can ‘pushes and pulls’ do? – Design and make a catapult</li><li>• Y2/Sp2 – Mars is a planet – gravity</li></ul> <p><u>KS2 – Knowledge and Skills</u></p> <ul style="list-style-type: none"><li>• Y3/A2 – Rocks - Different surfaces ‘feel’ different</li><li>• Gathering data / creating and interpreting bar charts (Maths)</li><li>• Measurements – rulers (Maths)</li><li>• North and South pole (Geography map work)</li></ul>
<p><b>Application/ Outcomes</b></p> <ul style="list-style-type: none"><li>• Classify actions as a push or a pull</li><li>• Plan and conduct investigation to compare the amount of force needed to move a toy vehicle on different surfaces</li><li>• Explore magnetism – ask and answer questions</li><li>• Plan and carry out a fair test exploring magnetism</li><li>• Predict and theorise on which items will be magnetic</li><li>• Methodically test, classify and sort items / materials on which items are magnetic.</li><li>• Learn about magnets and their poles and how / when these repel and attract.</li></ul>	<p><b>Concepts</b></p> <ul style="list-style-type: none"><li>• Magnetic forces</li><li>• A force is a push or a pull</li><li>• Friction</li></ul>	
<p><b>Other/Cross Curricular Links with English/Maths/Adaptation for SEND</b> Maths – measure, compare, add and subtract: lengths (m, cm, mm) Maths – Statistics – interpret and present data using bar charts, pictograms and tables Geography – compass points (North / South)</p>		