

Subject: Science

Theme: Forces and magnets (Y3)

<i>Knowledge</i>	<i>Skills</i>	<i>Vocabulary (Top 20)</i>	<i>Common Misconceptions</i>
<p>Compare how things move on different surfaces.</p> <p>Notice that some forces need contact between two objects, but magnetic forces can act at a distance.</p> <p>Observe how magnets attract or repel each other and attract some materials and not others.</p> <p>Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet and identify some magnetic materials.</p> <p>Describe magnets as having two poles. Predict whether two magnets will attract or repel each other, depending on which poles are facing.</p>	<p>You might work scientifically by:</p> <p>Identifying materials that are magnetic or non-magnetic.</p> <p>Look for patterns in the way magnets behave in relation to each other and explore the question: Does the size of the magnet affect how strong it is?</p> <p>Test how far objects move on different surfaces e.g. cars, spinning tops, wind-up/clockwork toys.</p> <p>Test the strength of different magnets.</p> <p>Research how magnets are used in everyday life.</p>	<p>material push pull attract bar button contact forces horseshoe magnet magnetic non-magnetic north ring south magnetic field poles repel friction</p>	<p>Some children may think:</p> <ul style="list-style-type: none"> • The bigger the magnet the stronger it is. • All metals are magnetic.



Love



Friendship



Compassion



Community



Trust



Forgiveness

"Let all that you do be done in love." 1 COR 16:24
Do all the good you can.... John Wesley



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