

Perton Primary Academy Knowledge Organiser

Science Topic: Forces and Magnets	Year Group: Three
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Overview: This teaches children about contact and non-contact forces, including friction and magnetism. Children will investigate frictional and magnetic forces and identify parts of a magnet and magnetic materials.

<p>Opportunities to develop working scientifically:</p> <ul style="list-style-type: none"> - Experiments using force meters - Experiments using magnets - Experiments using friction - Perform simple, fair tests - Create a simple compass 	<p>Key vocabulary:</p> <ul style="list-style-type: none"> • Attract • Alloy • Atmosphere • Force • Magnetic • Friction • Iron • Magnet • Lubricant • Newton • Contact force • Non-contact force • Pull • Push • Repel • North/south poles
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Prior Learning: Push and Pull	Future Learning:
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Key knowledge:
 Contact forces happen when two objects/bodies physically touch each other.

A frictional force is a type of contact force between 2 surfaces, which always slows down a moving object.

Force meters (Newton Meters) measure force in Newtons.

When the same or like poles of 2 magnets are placed near other and push each other apart (magnetic repulsion)

Magnetic fields are the invisible forces we can feel when magnets are close together.

Memorable Learning Experiences:

Assessment Questions:

Name contact and non-contact forces.

What is a frictional force?

Explain a way to measure force.

Explain magnetic repulsion.

Define a Magnetic Field.