What I Need to Know: Y3 Science – Forces & Magnets

We nurture the curiosity to learn, the courage to lead and the compassion to care.

We are learning about different types of forces. By the end of this unit we will know the properties of magnetic materials.

 Create, Communicate & Evaluate
• Create a poster that explains the properties of magnetic and non-magnetic materials
 Question, Reason, Discuss & Explain
• Explore how different surfaces result in different amounts of friction
• Observe how magnets attract or repel each other and attract some materials and not others
• Predict whether two magnets will attract or repel each other, depending on which poles are facing
 Know & Do
• Know what a force is, understand the effects of applying a force and that there are different types of force
• Describe two examples of force – push and pull
• Recognise that materials can be magnetic or non-magnetic
• Notice that some forces need contact between two objects, but magnetic forces can act at a distance
• Understand that magnets have two poles – north and south

Vocabulary I need to know…
force, push, pull, twist, contact force, non-contact force, magnetic force, magnet, strength, bar magnet, ring magnet, button magnet, horseshoe magnet, attract, repel, magnetic material, metal, iron, steel, poles, north pole, south pole

Opportunities to support English and maths
• Skim and scan texts to retrieve information or quotes quickly and accurately • Summarise main ideas from more than one paragraph • Make and justify inferences with appropriate evidence from the text • Provide reasoned justifications for their views, quoting evidence from across a text

Curriculum Links and Enrichment Activities
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