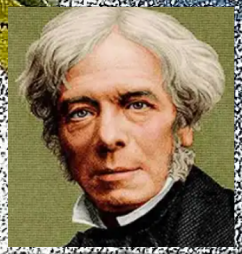
How do forces affect objects?

St. Peter's CE Primary Academy

Forces: contact and non- contact
Y3

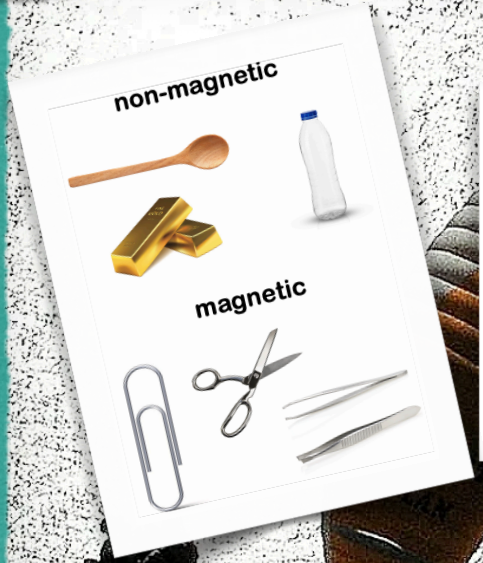
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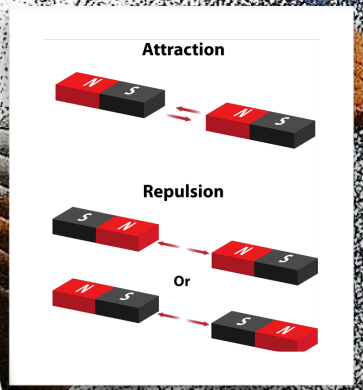
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Key learning

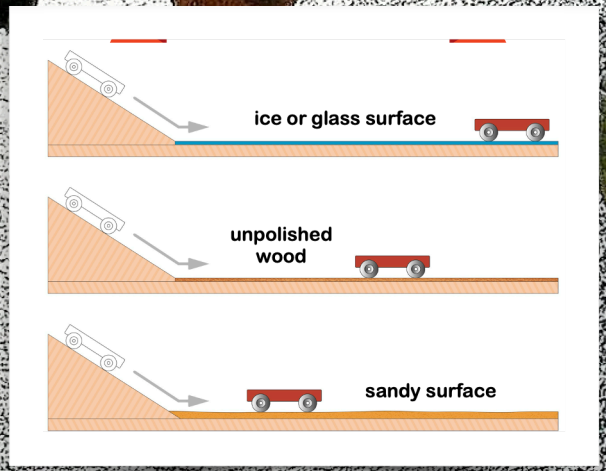
- Notice that some forces need contact between 2 objects, but magnetic forces can act at a distance.
- Observe how magnets attract and repel each other and attract some materials and not others.
- Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials.
- Describe magnets as having 2 poles.
- Predict whether 2 magnets will attract or repel each other, depending on which poles are facing
- Notice that some forces need contact between 2 objects.
- Compare how things move on different surfaces.





Key vocabulary

force	a power or strength that can cause an object to move
contact force	a force that occurs when objects touch each other
non-contact force	a force that occurs without objects touching each other
magnet	An item that can pull some metal objects towards it
magnetic	A material that is attracted to a magnet.
magnetic field	the force that surrounds a magnet and attracts magnetic objects
attract	To pull towards
repel	To force back or push away.
resistance	Causing something to stop or slow down.



Working scientifically concepts

- Asking and exploring questions
- Recording data
- Making predictions

Forces - Our Learning Journey

Year 3
- Notice and compare simple forces through friction and magnets

Year 5
- Identify and explain unbalanced forces
- Describe the orbits of the Earth and moon

Ethics

How does mining for rare earth metals impact the environment?