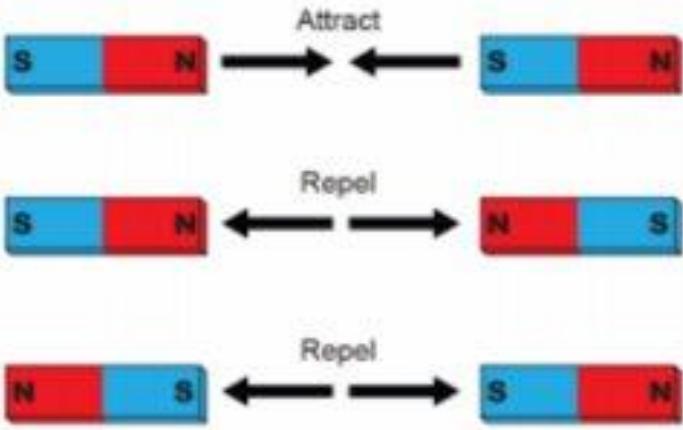




Do you think?
I wonder why...?

How will we find...?
What happens if...?

Like poles repel.
Opposite poles attract.



Magnetism is an invisible **force**. You can't see it, but you can see its effects.

Magnetic materials contain nickel, iron or cobalt.

Not all metals are magnetic.



How can we protect our awesome rainforests?

Year 3 Spring 1

I wonder if...?

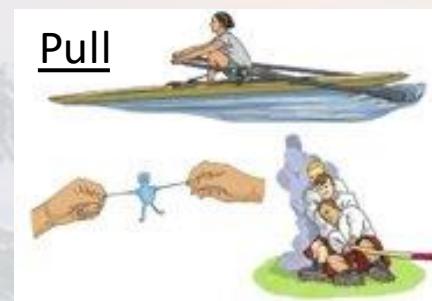
I wonder how...? How will we find...?



Push



Resistance



Pull

Different **surfaces** create different amounts of **friction**. Friction is always working against an object to slow it down.

The rougher the **surface**, the more **friction** there is.



Grass



Gravel

The smoother the **surface**, the less **friction** there is.



Glass



Ice

Key Vocabulary

Key Word	Definition
force	Push, pull, twist or turn
gravity	A pulling force exerted by earth, attracting objects towards the centre of the Earth
friction	Force between 2 moving surfaces
magnetism	Force of attraction and repelling caused by a magnet
poles	2 sides of a magnet where the magnetism is strongest
attract	To pull towards
repel	Push away
magnetic field	Area around a magnet, in which the magnet's power to attract can be felt
resistance	A force which slows down a moving object



Key Skills

Designing

- Generate own ideas and design criteria through discussion, focusing on the needs of the user.
- Use annotated sketches/prototypes to develop, model and communicate ideas.

Making

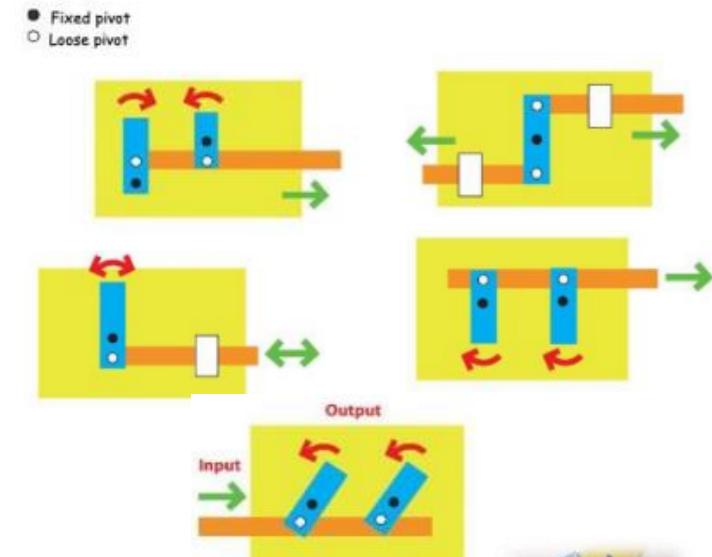
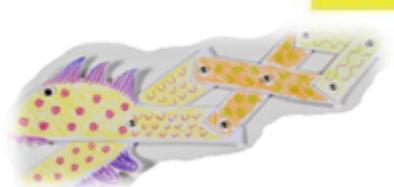
- Order the main stages of making.
- Select from and use appropriate tools and use finishing techniques.

Evaluating

- Investigate other products with lever and linkage mechanisms.
- Evaluate products/ideas against criteria and user needs, as they design/make.

Technical knowledge

- Understand and use lever and linkage mechanisms.
- Distinguish between fixed and loose pivots.
- Know and use technical vocabulary.



Key Vocabulary	
Key Word	Definition
mechanism	A device to create movement in a product
lever	A rigid bar which moves around a pivot
linkage	something that connects one or more levers to produce the type of movement required.
slot	a hole through which a lever is placed
pivot	A point which a lever turns around

Geography

- The Amazon Rainforest is found in South America, and it goes across many countries such as Brazil, Peru, Ecuador, Venezuela, and Colombia.

- This amazing forest is 5.5 million square km and is the largest tropical rainforest in the world.
- The Amazon Rainforest is often called "The Lungs of the Earth" because it produces over 20% of the world's oxygen supply thanks to all of its trees.

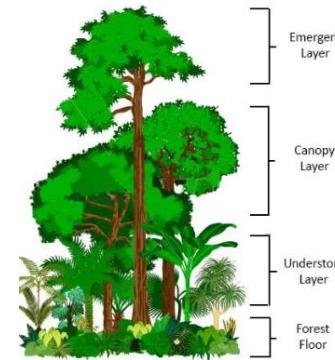
There are over 2,000 species of birds and mammals. Some common animals that live in the rainforest are jaguars, howler monkeys, sloths, anacondas, alligators, and apes. There are also lots of poisonous animals including electric eels, flesh-eating piranhas, poisonous dart frogs



- It is thought that between 400 or 500 different groups of native tribes live in the forest.



South America is a **continent** made up of a number of countries, including: Brazil, Venezuela, Columbia, Peru, Argentina and Chile.



Key Vocabulary

Key Word	Definition
rainforest	a dense forest, normally found in tropical areas with high rainfall.
ecosystem	a community of plant and animals that depend on each other to survive
deforestation	the action of clearing a wide areas of trees
habitat	the natural home or environment of an animal, plant or organism
Interdependent	when two or more people or things rely on each other
emergent layer	giant trees and enjoy the most sun but high winds and cold
canopy	dense layer of trees overlapping each other. Home to most animals in the rainforests
understory	relatively dark, open area below the canopy
forest floor	also known as the undergrowth, mainly consists of fallen leaves, fruits and other debris that decomposes as food for trees.
fauna	animals
flora	plants