

Knowledge Organiser

Year 3 Spring term: Where will your ticket take you?

Strand: Science — Forces and light.



What should I already know?

- EYFS - Understanding the world around me.
- Using a torch to create light.
- Creating shadows.

Key Vocabulary

Light, dark, eyes, reflects, solid objects, surfaces, shadows, light source, magnets, magnetic, north pole, south pole, forces, materials.

Resources to help me with my learning!

Magnets - www.bbc.co.uk/bitesize/topics/zyttyrd

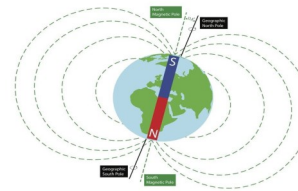
Light — www.bbc.co.uk/bitesize/topics/zbssgk7/articles/z2s4xfr

Reflection — www.bbc.co.uk/bitesize/topics/zbssgk7/articles/zqdx82

How do our eyes detect light? www.bbc.co.uk/bitesize/topics/zbssgk7/articles/zp7f8mn

What will I know by the end of this unit?

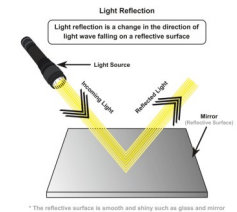
- I know that we need light to see things
- I know that dark means there isn't any light
- I know that light reflects off objects into our eyes to see them
- I know that shadows are formed when light from a light source is blocked by a solid object
- I know that the closer the solid object is to the light source the bigger the shadow will be
- I know that magnets have two poles
- I know which poles must face for two magnets to attract/repel
- I know how to explain how different objects move on different surfaces
- I know that some forces need contact between two objects but magnetic force can act at a distance
- I know magnets attract each other north to south pole
- I know some materials that are magnetic and not magnetic



Earth's magnetic field.



Shadow of a cat.



Light reflecting off of a