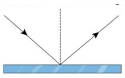
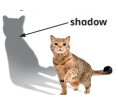
Year 3– Light (Physics)

Factual Knowledge



- I know humans and other animals need light to see.
- I know natural light sources are objects in nature that give out light, such as the Sun.
- I know artificial light sources are made by humans.
- I know the Sun is a light source. Without the Sun, living things would not be able to live and grow on planet Earth.
- I know light from the Sun can be dangerous and I understand there are ways to protect your eyes from the Sun.
- I know humans need light to see and darkness is the absence of light.
- I know humans need light to see objects. Light travels from a light source to an object. The light is then reflected into our eyes.
- I know opaque materials do not let light rays pass through.
- I know translucent materials allow some light to pass through but do not form clear, defined shadows.
- I know transparent materials allow light to pass through.
- I know shadows are formed when the light from a light source is blocked by an object.

Important vocabulary I will know

light		energy that is needed to see
light sources		objects that give out light
natural light sources		objects in nature that give out light
artificial light sources		made by humans
reflection		the return of light from a material or surface
opaque		an object or material that does not allow any light to pass through it
translucent		an object or material that allows some light to pass through it
transparent		an object or material that allows all light to pass through it
shadow		a dark area caused by an object blocking a source of light
distance		how far two points are away from each other

Scientific Enquiry– Fair test

Enquiry question: How does the distance between the light source and the object affect the size of a shadow?

Working Scientifically

- Gather, record and classify data
- Make observations
- Ask questions
- Plan
- Answer questions and make conclusions

