



Light

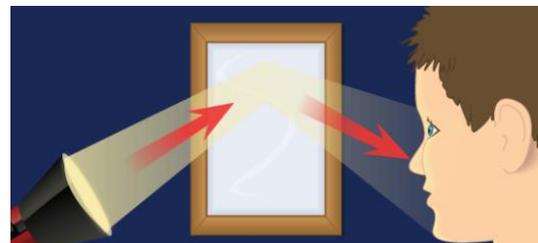
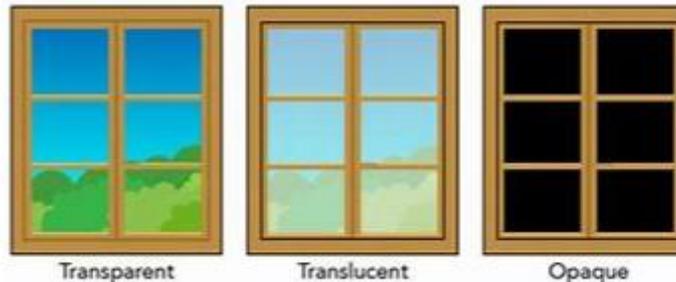
Science - Year 6 – Autumn 1

Key Vocabulary

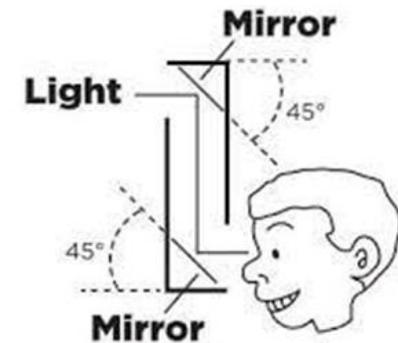
light	Light makes things visible. We detect light with our eyes in order to see things.
light source	A light source produces its own light.
reflected	If light is reflected, it is 'bounced' off a surface,
direction	Direction is the path that something takes to reach a particular place.
angle	An angle is the space between two straight lines which join at a vertex or point.
periscope	A periscope is a device that enables you to see over walls or around corners.
shadow	A shadow is formed when an opaque object blocks out the light.
opaque	Objects that are opaque blocks the light from getting through.
translucent	Objects that are translucent are almost see-through and let some light pass through but not all.
transparent	Objects that are transparent are clear and you can see through them clearly. They let light pass through them.
cast	To cast a shadow is to block light and cause a shadow.
Outline	The outline of an object is the main shape or edge of it without any detail
colour spectrum	The range of different colours seen when white light is split up.
refraction	The process of light changing speed as it travels through different materials. This can cause it to change direction.

Substantive Knowledge

- **Light** appears to travel in straight lines.
- We see because **light** travels from a **light source** into our eyes.
- For objects that are not a **light source**, **light** must be **reflected** from the object into our eye for us to see the object.
- An **opaque** object blocks the **light** from getting through. A **shadow** is formed.
- White **light** is made up of all of the colours of the **colour spectrum**.
- When **light** travels through denser materials than air, it slows down and bends. This is called **refraction**.
- **Transparent** objects are clear and see-through. They let **light** pass through.
- **Translucent** objects are almost see-through and let some **light** pass through.



Periscope



A **periscope** is a device that allows you to see over walls or around corners. It consists of an outer case with mirrors at each end. The mirrors are placed at a 45° angle. The **light** from an object strikes the top mirror at 45° and bounces off at the same angle. This sends **light** directly down the tube and onto the lower mirror. This mirror, also at a 45° angle, **reflects light** directly to your eye.