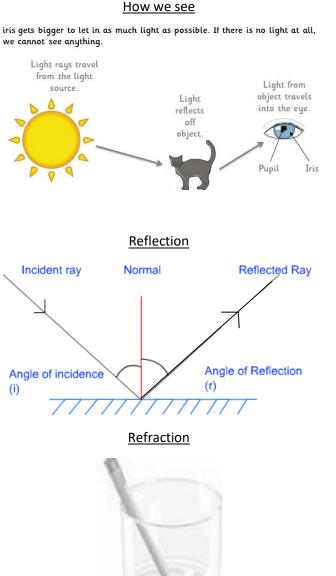
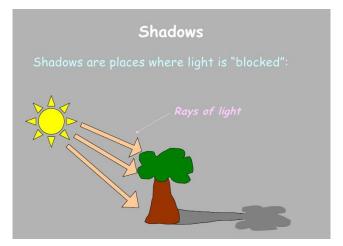
## <u>Light – knowledge organiser</u>

Key knowledge	
Why do we need light?	• We need light to be able to see things. Light
	waves travel out from sources of light in straight
	lines. These lines are often called rays or beams
	of light.
How do we see	• The light ray is then reflected off the object and
objects?	travels in a straight line to the girl's eye,
	enabling her to see the chair.
Light travels as a wave. But unlike sound waves, it does not need a	
medium to travel	through. This means light can travel through a
vacuum - a compl	etely airless space.
A shadow is always the same shape as the object that casts it. This is	
-	opaque object is in the path of light travelling from a
<b>.</b> .	l block the light rays that hit it, while the rest of the
light can continue	travelling.
	Scientists we need to know about
5 facts about	<ul> <li>Thomas Edison was born February 11, 1847</li> </ul>
Thomas Edison	<ul> <li>He was educated at home by his mum</li> </ul>
	<ul> <li>When Edison was twelve, he started publishing</li> </ul>
	and selling a newspaper to passengers on the
	train.
	• He worked extremely hard and registered 1,093
	patents. A patent is a document granting an
	inventor sole rights to an invention.
	• In 1878, Edison invented the light bulb for which

he is most famous for.





**Key Vocabulary** 

light - A form of energy that travels in a wave rom a source.

light source - An object that makes its own light

reflection- Reflection is when light bounces off a surface, changing the direction of a ray of light.

refraction - This is when light bends as it passes from one medium to another. E.g Light bends when it moves from air into water.

visible spectrum - Light that is visible to the human eye. It is made up of a colour

shadow - An area of darkness where light has been blocked.

transparent - Describes objects that let light travel through them easily, meaning you can see through the object

translucent - Describes objects that let some light through, but scatters the light so we can't see through them properly.

opaque - Describes objects that do not let any light pass through them.