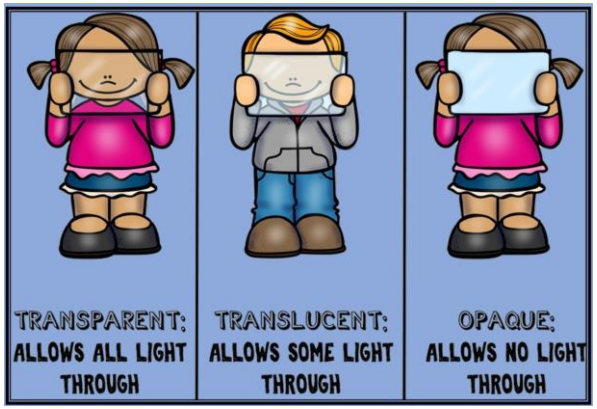
Year 3: Science Light Knowledge Mat

Subject Specific Vocabulary

light source	A light source is something that gives off light. For example a candle, the sun or a light bulb.
darkness	Darkness is the absence of light.
reflection	The return of light from a surface.
lux	The unit used to measure light or luminosity.
transparent	An object or material that is clear enough or thin enough to be seen through is said to be transparent.
translucent	Something that is translucent lets some light pass through so that you cannot see through it clearly.
opaque	Something that is opaque cannot be seen through and does not allow light to pass through it.
reflect	The return of light from a surface.
cast	A shadow is cast because light has been blocked by an object.
angle	An angle is formed when two lines meet at a shared point.

Reflection of Light

Transparent, Translucent, Opaque



Important knowledge

- ❑ I know that you need to light to be able to see things.
- ❑ I know that darkness is the absence of light.

- ❑ I know that light is reflected from objects and that the light travels to my eyes so that I can see them.
- ❑ I know that light is reflected better from shiny surfaces than dull surfaces.

- ❑ I know that when light is blocked by an object then a shadow is formed.
- ❑ I know that the size of shadows made by the sun change as the position of the sun changes.

- ❑ I can record my observations using simple scientific vocabulary in labelled drawings.
- ❑ I can write an explanation to show what I have found out from examining my test results.
- ❑ I can show how light travels by drawing a diagram and annotating the direction which light travels; where it travels from and where it travels to.
- ❑ I can think of different ideas and suggest ideas about how to investigate which materials block most light.
- ❑ I can make a prediction about which objects I think will cast a shadow.
- ❑ I can use simple scientific words and language to describe and compare how shadows change as the position of the light source changes.