
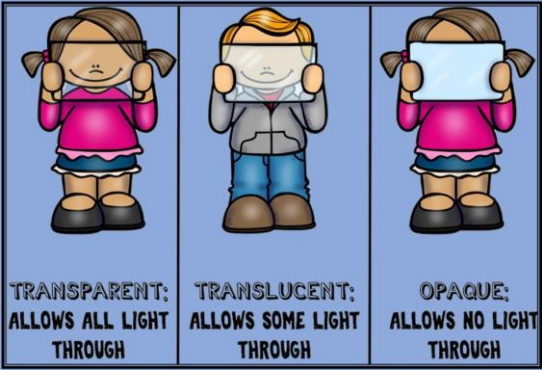


Year 3: Science Light Knowledge Mat

| Subject Specific Vocabulary | | Light | Important Knowledge |
|-----------------------------|---|---|--|
| light source | A light source is something that gives off light. For example a candle, the sun or a light bulb. |   | <ul style="list-style-type: none"> <input type="checkbox"/> I know that you need light to be able to see things. <input type="checkbox"/> I know that darkness is the absence of light. <input type="checkbox"/> I know that light is reflected from objects and that the light travels to my eyes so that I can see them. <input type="checkbox"/> I know that light is reflected better from shiny surfaces than dull surfaces. <input type="checkbox"/> I know that when light is blocked by an object then a shadow is formed. <input type="checkbox"/> I know that the size of shadows made by the sun change as the position of the sun changes. |
| 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. | | |

Working Scientifically

- 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.