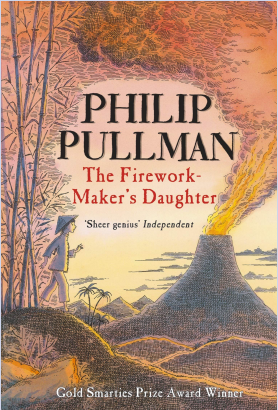
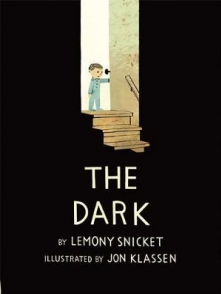


LKS2 Light Knowledge Mat

| Subject Specific Vocabulary | | Interesting Books | Sticky Knowledge about light and dark |
|-----------------------------|--|--|--|
| reflection | A reflection occurs when a ray of light hits a surface and bounces off. |   | <input type="checkbox"/> Black and dark objects absorb light and heat whilst white or light objects reflect it. |
| shadows | A shadow is formed when an object blocks out the light. The object must be opaque or translucent to make a shadow. | | <input type="checkbox"/> Some objects like glass are transparent which means that light can shine through them. |
| light source | The main light source for Earth is the Sun. Some other luminous objects give out light, for example, torches, candles and lamps. | | <input type="checkbox"/> Our main source of light on Earth comes from the Sun. A ray of light travels very fast. |
| opaque | Opaque objects do not allow light to pass through them, in most cases creating a shadow. | | <input type="checkbox"/> Darkness is made by blocking light from the sun or some other source of light, which makes shadows. |
| refraction | It is the change of direction of a light ray as it passes through different surfaces, for example, from air to water. | | Important facts to know by the end of the light and dark topic |
| periscope | A periscope is an instrument people use to look at things from a hidden position. | | <input type="checkbox"/> The Sun and other stars, fires, torches and lamps all make their own light and so are examples of sources of light. |
| nocturnal | If something is nocturnal, it belongs to or is active at night. For example, bats and owls. | | <ul style="list-style-type: none"> • What dark is (in relation to absence of light). • Know that we need light so we can see things. • Know that light can be reflected. • Know how a shadow is formed. • Understand why shadows change shape. • Know the dangers of looking directly at the Sun. • Know how to protect oneself from direct sunlight. |
| orbits | An orbit is a repeating path that one celestial body takes around another. | | <input type="checkbox"/> A mirror is not a source of light, it merely reflects light. Similarly, the Moon is not a source of light because it reflects the light from the Sun. |
| convex | Convex lenses, also called positive lenses, are lenses that curve outward from the edges to the centre. | | <input type="checkbox"/> Some animals are nocturnal. They are awake at night and can see very well in the dark. Our eyes aren't designed to see at night. |
| concave | A concave lens is one where the centre of the lens is thinner than the edges. | | |