

# Science: Shadows - How far can you throw your shadow?

## Key Vocabulary:

|                          |   |
|--------------------------|---|
| <b>Nocturnal</b>         | Something that is active or occurs during the night, as opposed to the day  |
| <b>Shadow</b>            | A dark shape made when light is stopped or blocked by an object or person   |
| <b>Reflection</b>        | A source of light and a surface. The light travels towards the surface and bounces off it                                   |
| <b>Specular</b>          | Means like a mirror, where light bounces off a smooth surface in a neat, predictable way, like seeing your face in a mirror |
| <b>Ultraviolet light</b> | A type of energy given off by the sun. Ultraviolet light can affect our skin and give us sunburn if we are not careful!     |



## Sticky Knowledge Facts:

- Objects that let light through are opaque, shadows are the absence of light
- Large objects produce large shadows because they block more light. If the light's source is close to the object this also creates a large shadow
- A reflection occurs when the light bounces off a surface and changes direction
- The sun is the Earth's natural light source
- Specular reflection is the mirror-like reflection from a smooth surface where light rays reflect at the same angle as they hit it
- Wearing sunglasses that are opaque and block out the ultraviolet light from the sun can help to protect our eyes

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