

**Tier 3 Vocabulary**

Description	a statement that says what you see
Dull	a surface that scatters light and does not look shiny
Explanation	a sentence (or sentences) giving a reason for something happening
Light source	the place where light originates from
Mirror	a shiny polished surface
Observation	what we see happening in a scientific test
Opaque	not letting light pass through
Reflect	to change the direction of light using a shiny surface
Shadow	darkness caused by light being blocked
Shiny	surfaces that reflect lots of light
Translucent	letter some light through
Transparent	letting most or all light through
Dark	the absence of light
Reflection	an image produced by a mirror or shiny surface
Comparative test	Comparing different materials or objects.
Fair test	A controlled test where you only change one variable.

**Working and thinking scientifically**

**We are being scientists by:**

- Setting up simple practical enquiries and comparative tests.
- Making systematic and careful observations using a range of equipment.
- Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.
- Using results to draw simple conclusions and make predictions.

**Key Facts**

Darkness is:	The absence of light.
Light is needed:	So that we can see things.
Light comes from	Anything that produces light (a light source).
Smooth and shiny surfaces:	Reflect light
Dull surfaces:	Do not reflect light.
When light reflects it:	Bounces off of the surface
There are different types of mirrors which:	Reflect objects in different ways.
Shadows are formed when:	The light from a light source is blocked by a solid object.
Shadows get bigger when:	An object is close to the light source.
Shadows get smaller when:	An object is far away from the light source

**Pictures and Diagrams**

The collage includes the following elements:

- Translucent, Transparent & Opaque:** Three diagrams showing light rays passing through different materials. 'Transparent' shows all light passing through. 'Translucent' shows some light passing through. 'Opaque' shows no light passing through.
- Light Sources:** Images of the sun, a street lamp, a candle, a fire, a lightbulb, and a hand holding a lit match.
- Reflection:** A diagram of a person standing in front of a mirror, with labels for 'Right hand' and 'Left hand of image'.
- Shadows:** A diagram of a tree with rays of light from the sun hitting it, casting a shadow on the ground.