

Y4 Science – Light

Knowledge

- I know which materials light passes through.
- I know how to make a shadow puppet.
- I can predict what shape the shadow of an object will be.
- I can describe what darkness is.
- I can say why I should not look at the Sun.



Cross Curricular links/Past knowledge

Vocabulary

Light, see, dark, reflect, shadow, opaque, translucent, transparent, natural, artificial, light source, reflector, absence, solid, surface, protect.

Working Scientifically

- I can ask questions and offer my own ideas for scientific enquiry.
- I am beginning to know when I should use a fair test to answer a question or when I should collect evidence in other ways.
- In a fair test, I can identify what to keep the same, what to change and what to measure and observe. I can plan the main steps in other types of enquiry. I can recognise most hazards and beginning to plan how to control risks.
- I predict outcomes and sometime suggest reasons for my prediction.
- I can select appropriate equipment. I am beginning to consider the scale & degree of accuracy on some measuring equipment.
- I can use basic equipment correctly and safely. I am beginning to deal with equipment failures.
- I can make a series of observations. I can use standard measuring equipment for most quantities.
- I can make a general statement about simple patterns in results.
- I can make further predictions from results in simple contexts.
- I can provide explanations for simple patterns in results.
- I can suggest how the enquiry might be improved. I am beginning to recognise some of the limitations of my evidence.