|  |
| --- |
| Year 6 Science – Light – Autumn 2 |
| What should I already know? | What am I going to learn in this unit? | Vocabulary I need to know |
| * Explore how things work
* Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense
* Recognise that I need light in order to see things and that dark is the absence of light
* Notice that light is reflected from surfaces
* Recognise that shadows are formed when the light from a light source is blocked by an opaque object
* Find patterns in the way that the size of shadows change
* Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets
* I can ask scientific questions independently
* I can select a range of practical resources to gather evidence to answer my questions
* I can select measuring equipment to give the most precise results
* I can decide how to record and present evidence
 | * I can recognise that light appears to travel in straight lines
* I can use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye
* I can explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes
* I can use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them
* I can ask scientific questions independently
* I can select a range of practical resources to gather evidence to answer my questions
* I can select measuring equipment to give the most precise results
* I can decide how to record and present evidence
 | Reflection | The throwing back by a body or surface of light, head or sound without absorbing it |
| Refraction | The bending of light as it passes from one substance to another with the bending cause by the difference in density between two substances |
| Shadow | A dark area or shape produced by a body coming between rays of light and a surface |
| Spectrum | A band of colours, as seen in rainbows, produced by separation of the components of light by their different degrees of refraction |
| Light source | Something that provides light, whether it be a natural or artificial source of light (e.g. the sun or torch) |
| Periscope | An apparatus consisting of a tube attached to a set of mirrors or prisms through which an observer can see things that are otherwise out of sight |