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| **Science Curriculum Coverage and Progression – Light** | | | | | | | | |
| **NC** | **Nursery** | **Reception** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
| **Light** | . | . |  |  | * recognise that they need light  in order to see things and that dark is the absence of light; * notice that light is reflected  from surfaces; * recognise that light from the sun can be dangerous and that there are ways to protect their eyes; * 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. |  |  | * recognise that light appears to travel in straight lines; * 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; * 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;   use the idea that light travels in straight lines to explain why shadows have the same shape as the objects |
| **Vocabulary Progression** |  |  |  |  | * **Light** and seeing: **dark,** absence of light, **light source,** illuminate, visible, **shadow, translucent,** energy, block. * **Light sources:** e.g. candle, torch, fire, lantern, lightning. * **Reflective light: reflect, reflection,** surface, **ray**, scatter, reverse, beam, angle, mirror, moon. * Sun safety:dangerous, glare, damage, UV light, UV rating, sunglasses, direct.   Previously introduced vocabulary: **opaque, transparent,** sunlight, sun. |  |  | * Reflection: periscope. * Seeing light: **visible spectrum, prism.** * How light travels: light waves, wavelength, straight line, **refraction.**   Previously introduced vocabulary: names and properties of materials, absorb. |