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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. |