**Crofton Junior School – Curriculum Knowledge Organiser**

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| **Unit of Work** | Science – Physics – Year 3 | |
| **Key Strand** | Understanding light and seeing | |
| **Overview of the Unit of Work** | This concept involves understanding how light and reflection affect sight. | |
| **Prior Learning & Vocabulary** | Year 2 (materials): transparent, opaque, translucent | |
| **Sticky Knowledge** | We need light to be able to see things. Light travels in a straight line. When light hits an object, it is reflected. If the reflected light hits our eyes, we can see the object. Some surfaces and materials reflect light well; other materials do not reflect materials well. Reflective materials can be very useful. The surfaces that reflect light best are smooth, shiny and flat. | The pupils control the amount of light entering the eyes. If too much light enters, then it can damage the retina. To help protect the eyes, you can wear a hat with a wide brim and sunglasses with a UV rating. |
|  | A shadow is caused when light is blocked by an opaque object. When a light source is to one side of an object, the shadow will appear on opposite side. | |
| **New Vocabulary** | light, light source, names of light sources, dark/darkness, reflect, reflective, mirror, shadow, block, direct/direction, ray, retina, pupil | |
| **Post Learning** | Year 6 : Light | |