**St Mary’s C of E Primary School, Writhlington**

*‘Inspiring Learning Together’*

**Scheme of Work + Knowlegde Organiser**



**Key Vocabulary:**

|  |  |
| --- | --- |
| **Spelling** | **Definition/Sentence** |
| light | a brightness that lets you see things |
| dark | the absence of light |
| reflect | sent back from the surface and not pass through |
| torch | a small electric light powered by batteries |
| mirror | a flat piece of glass which reflects light so that you can see your reflection |
| opaque | something which you cannot see through |
| translucent | allows light through, but not in detailed shapes |
| transparent | allows light to pass through so that objects can be directly |



**Wider Curriculum** (Cooking, trips, outdoor):  
Links to PSHE and sun safety

**The Learning Journey:**

**Can I identify a range of different light sources?**Children will discuss the difference between light and dark, using these ideas to sort different objects into light and non-light sources.

**Which surfaces reflect light?**Children will design their own reflective backpack for cyclists to wear when riding in the dark. They will conduct an experiment to identify the best reflective material to use.

**How do mirrors work?**Children will discover and discuss the characteristics of reflective surfaces by playing mirror games.

**What are the benefits and dangers of the sun?**Children will explore the idea of UV light and its effects. They will create an information poster to explain how people can stay safe whilst enjoying the sunshine.

**Which materials block light to form shadows?**Children will conduct an experiment to determine which material best blocks light. Using these ideas they will design their own pair of curtains.

**How do shadows change?**This lesson will take place outside, where children will investigate the concept of shadows and why they change.

**Knowledge outcomes:**

Recognise that light is needed 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 our 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

**Let There Be Light!**