



# SUTTON-ON-SEA CP SCHOOL KNOWLEDGE ORGANISER

## Science Year 3: Light

**Knowledge and skills:** The children will:

- 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.
- Know that light from the sun can be dangerous and that there are ways to protect their eyes
- Understand 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.



### **Background knowledge:**

We need light to be able to see things. Light travels in straight lines called rays. When light hits an object it is reflected back. If this light then hits our eyes we can see the object. Some surfaces are good at reflecting light, some surfaces do not reflect light very well. Shadows are caused when light rays are blocked by opaque objects. The position of the light source to the objects can affect the shadow's size and position.

### **Key Vocabulary**

Light	light source	dark shadow	
	transparent	translucent	
opaque	ray	absorb	
	reflect	reflective	mirror
pupil	retina		