Plants	Animals including	Rocks	Light	Forces and magnets
	humans		=:8:	

## Year 3 – Light

## **Knowledge**

- To know that light is needed in order to see things and that dark is the absence of light.
- To know that light is reflected from surfaces.
- To know that light from the sun can be dangerous and that there are ways to protect their eyes.
- To know that shadows are formed when the light source is blocked by a solid object.
- To know that there are patterns in the way that the size of shadows change.

## **Skills**

 making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including data loggers

This can be achieved by using data loggers to test the amount of light in different places at different times of the day. Use standard measurements and record results using a bar chart. (Observing over time)

- gathering, recording, classifying and presenting data in a variety of ways to help in answering questions
- reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions

Record measurements in the form of a table using standard measurements. Investigate the change in the size of the shadow compared to the distance of the light source. Draw diagrams to explain how light is reflected from different surfaces. (Pattern seeking)

Vocabulary	Reflective surface Transparent Translucent Absence of light Bright Dull	
Light		
Dark		
Shadow		
Reflect		
Light source		
Solid		
Block		
Mirror		
IVIIITOI		

## **Preload**

- Sound light reflects off surfaces as does sound (echoes)
- Earth and space describe what dark is in terms of the Earth's rotation (night and day) Electricity – know that torches allow us to see in the absence of natural light (electrical sources)