Christ Church CE Primary School
Science Assessment

'Train up a child in the way they should go and when they are old, they will not depart from it.'
Proverbs 22:6

Upper KS2 Y6	**Unit: Light** **Learning Objective:** Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them. .Recognise that light appears to travel in straight lines .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 that objects are seen because they give out or reflect light into the eye.
	Core Curriculum Content:
Knowledge and understanding	**Expected** • Draw a diagram showing an object, shadow and light to relate object shape to shadow shape. • Represent light using straight line ray diagrams. • Explain how we can see an object by referring to light travelling into the eye. • Draw diagrams using straight lines showing light travelling to the eye. Name some objects which reflect light.
Pupils	

Christ Church CE Primary School
Science Assessment

'Train up a child in the way they should go and when they are old, they will not depart from it.'
Proverbs 22:6

Knowledge and understanding	Working Towards 	Greater Depth 
	Relate the shape of shadows to the shape of the object that makes them. Recognise that light travels from one point to another and begin to represent this with diagrams. Describe how light travels from light sources to our eyes. Recognise that some objects reflect light.	Use a diagram to explain that although a shadow is the same shape as the object, it may not be the same size. Recognise that even when light changes in direction, the path is still continuous. Represent this with scientific diagrams. Refer to the idea that some objects may be better reflectors than others. Draw diagrams using straight lines showing light reflecting off objects and into the eye.
Pupils		

Pupils with additional needs have made the following responses ..... Relate the shape of shadows to the shape of the object that makes them, with help.

Begin to recognise that light travels from one point to another.

Describe how light travels from light sources to our eyes, with help.

Begin to recognise that some objects reflect light, with help.