Year 3 Light

Important Questions

1	What does 'darkness' mean?	
2	Why can we see things?	
3	Why do we need to protect our eyes from the Sun and how can we do this?	
4	How are shadows formed?	
5	What happens to the size of a shadow?	

Key Knowledge

1	To understand that darkness is an absence of light	
2	To understand that light is reflected from surfaces and that is why we can see objects	
3	To recognise that the Sun is dangerous to our eyes and that we need to protect them.	
4	To recognise that shadows are formed when the light from a light source Is blocked	
5	To find patterns in the way that the size of shadows change	

Key Skills

1	To make systematic and careful observations using measurements to look at how a shadow changes through the day	
2	Use results of the shadow on the playground to make predictions for new values	
3	Set up a simple practical enquiry to investigate how a shadow changes through the day	
4	Record the findings of the shadow experiment in a bar graph	
5	Ask relevant questions and use scientific enquiry to answer them	

Vocabulary

1	Light source	Anything that gives out light is a light source	
2	Opaque	A solid object that does not let any light pass through and will cause a shadow	
3	Reflection	When light bounces off an object such as the moon so that we can see it	
4	Translucent	An object that will only let some of the light pass through such as tracing paper	
5	Transparent	An object that is completely see through such as a glass window	
6	Shadow	Something that is created when light is blocked by an opaque object. It happened because light travels in straight lines