

## Year 3 – Autumn Term 1- How far can you throw your shadow?

<p>What is a light source?</p> <p>Can you organise light sources into natural and artificial light sources?</p>		<p>What materials are transparent, which are translucent, and which are opaque?</p>		<p>Which material is the most reflective?</p>		<p>Why do we need to be careful on a sunny day?</p>			
<p>How is a shadow formed?</p> <p>How does the distance between the shadow puppet and the screen affect the size of the shadow?</p>		<p>How does a shadow change throughout the day?</p>							
<p>Can I log on and off the chrome book?</p> <p>Can I save and retrieve my work to a folder on the chrome book?</p>		<p>Can I edit my work on the chrome book?</p>		<p>Can I sing as part a group?</p> <p>Can we create a beat using percussion to accompany our shadow poem?</p>		<p>Can I design and make a shadow puppet using cams?</p>		<p>How does an artist create reflections using watercolour? (William Turner inspired)</p>	
Asking Questions	Observing	Making Predictions	Setting up Tests	Recording data	Evaluating	Communicating Results			



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### KEY VOCABULARY

Light source	Any object which creates its own light. The sun, fire, torches and lamps are all examples of light sources.
Shadow	A dark area or shape created by an object coming between rays of light and a surface.
Transparent	A material which allows all light to pass through so that objects behind can be clearly seen.
Translucent	A material which allows some light to pass through so that outlines of objects behind it can be seen, but not clearly.
Opaque	A material which does not allow any light to pass through. You cannot see through opaque materials.
Periscope	A piece of equipment made by a tube attached to a set of mirrors. It allows the person looking into the periscope to see things that are otherwise out of sight.



What is a Light source?



What can give us sun protection?



How is a shadow created?



Which objects are transparent, translucent and opaque?



Things I would like to know about this topic.

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

Galileo Galilei

Galileo Galilei was an Italian astronomer, physicist and engineer who is known as "the father of modern science". He was born in Pisa on 15<sup>th</sup> February 1564.

Galileo was the first person to attempt to measure the speed of light by using lanterns. He also created the telescope, which makes far away objects appear nearer.