






## Year 3

### AUTUMN TERM 2: Topic - Light and Shadows

Choose at least one English task, one maths task and one topic/science task from the table below. The tasks are ranked accordingly, from 1 star being the easiest level to 3 stars being the hardest. You can choose which level you complete. If you wish to, you could complete more than three tasks.

Star Ranking:	ENGLISH	MATHS	SCIENCE
	Describe and draw what happens when you write a word on a piece of paper and then look at it in a mirror.	Draw a bar chart or a pictogram to show which room in your house has most light sources. ( e.g TV, lamp etc.).	Make a model light house and write why they are so important to sailors and fisherman etc.
	Write a set of instructions on how to make a rainbow. (see below for ideas)	Experiment and see how light creates shadows. Take photographs or draw pictures of these objects with the light shining from 3 different angles. How does this change the shadow?	Design a school bag or coat that has reflective materials to help you be seen at night.
	Research and make a presentation about the importance of light in different religions. e.g. Diwali, (Hinduism), the Advent candle (Christianity), Hanuka (Judaism). You can present it any way you like - PowerPoint, leaflet, poster etc.	Carry out an investigation to explore how shadows are created and how their size can be changed. Use a ruler to measure the size of your shadow and the distance away from your object.	Design and make a shadow puppet including some translucent and some opaque material. Write up clear instructions for making your puppet, include labelled drawings. (If you are not sure what this means, look on the BBC schools' website).

**Challenge:** Create and complete your own task related to our science topic.

Here are some websites to help you:

<https://www.twinkl.co.uk/blog/science-homework-help-light>

<https://www.stem.org.uk/resources/community/collection/12719/year-3-light>

BBC Bitesize – light and dark

<https://www.theschoolrun.com/what-is-light>

<http://www.primaryhomeworkhelp.co.uk/revision/Science/light.html>

**Please complete and return to your teacher by Monday 9<sup>th</sup> December 2019**

*How to make a rainbow*

*First, squeeze the juice from a red apple into the cauldron.*

*Next stir in the sunset's sweet, orange delight.*

*After that whisk in the shimmer of the golden sun.*

*Then take the grass from a football pitch and let the mixture simmer.*

*Once this is cooked well, add a section of the sky's sheer blue.*

*Now, sprinkle over the top, some thistle's royal purple petals.*

*Finally add the bruised juice of a blackberry.*

*Stir the ingredients and enjoy your tasty rainbow. Ideally serve with a golden pot of riches at the end!*