



## Year 6 Home Learning Menu

### Term 6: Light it up!

<p>Create a poster showing all the electrical symbols you know and what they mean.</p>	<p>Find out about the different ways power stations generate electricity.</p>	<p>Find out about building and designing eco houses. Design your own eco house and label it with its energy saving features and sustainable materials. Perhaps you could make a model of your house?</p>
<p>Bouncing spotlight You will need: ball, torch, mirror, dark room. Experiment: Place the ball in different parts of the room. Keeping the torch in one place can you move the mirror so that the light can always shine on the ball? Write up your findings including diagrams.</p>	<p>Experiment and see how light creates shadows. Take photographs of objects with the light shining from 3 different angles. How does this change the shadow?</p> <p>Research how to create colourful shadows: Can you create a piece of art using this technique?</p>	<p>Design a new light source to replace light bulbs. How would it work and why would it be an improvement on light bulbs. Be prepared to present your innovative design to your class to convince them to replace their current lightbulbs with your exciting new creation. Remember to include technical vocabulary and specific details about your invention</p>
<p>Plan your own scientific experiment to answer the question "How does light travel?"</p>	<p>How important is light? What would life be like without it? Write a poem about life without light. Consider its importance of light and whether we actually need it. Could we survive without light? What would our lives be like without light?</p>	<p>Using your knowledge of circuits, how would you draw a circuit design for your own security alarm system? It could be for the biscuit jar, your secret stash of sweets, or your bedroom! Which components will you need and how will the device work? Draw an accurate circuit diagram and explain how it works in a piece of writing.</p>

**Due in Friday 19<sup>th</sup> June 2024**

'Happy, Safe, Successful'