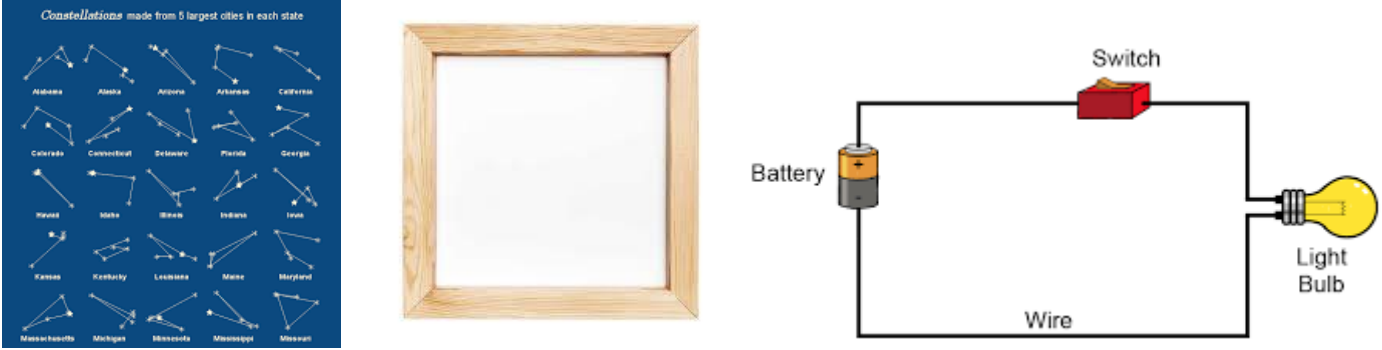




## Crofton Junior School – DT Knowledge Organiser – It's All Greek to Me – Year 6 Autumn Term



<b>Unit of Work</b>	DT – It's All Greek to Me! – Constellation Frames
<b>Text Driver the Unit of Work Links to</b>	Who Let the Gods Out?
<b>Key Strand</b>	Master Practical Skills – Materials Master Practical Skills – Construction Master Practical Skills – Electricals and electronics Design, Make, Evaluate and Improve
<b>Overview of the Unit of Work</b>	Pupils will learn how to create a star constellation frame with light. They will use a range of practical skills and cut materials with precision, create an electronic circuit and design with purpose and make products efficiently.
<b>Prior Learning &amp; Vocabulary</b>	<p>The pupils will have already learnt about materials during the Spring Term of Year 3, Spring Term of Year 4 and Autumn Term of Year 5. They will have also looked at construction during the Autumn Term of Year 4 and the Autumn and Summer Terms of Year 5. Pupils will have finally looked at electricals and electronics during the Summer Term of Year 4.</p> <p><b>Vocabulary:</b> design, make, evaluate, technical, purposeful, appealing, criteria, generate, develop, model, communicate, ideas, templates, tools, practical, materials, components, construction, product, purpose, inspiration, features, technique, intended user, existing, shaping, joining, disassemble, LED, conductive, adhesive, exploded diagram, batteries, parallel – line, circuit</p>
<b>Sticky Knowledge</b>	<p>Pupils will learn:</p> <ul style="list-style-type: none"><li>• Designers follow a process to develop and make a product. First in the design process is thinking; this is where the designer develop an outline idea. To do this, they think about the product, its purpose, the intended users, ideas and inspiration from existing products, the product's features and the materials and techniques they will use.</li><li>• To cut materials with precision and refine the finish with appropriate tools (such as sanding wood after cutting or a more precise scissor cut after roughly cutting out a shape).</li><li>• Develop a range of practical skills to create products (such as cutting, drilling and screwing, nailing, gluing, filing and sanding).</li><li>• Create circuits using electronics kits that employ a number of components (such as LEDs, resistors, transistors and chips).</li><li>• Design with purpose by identifying opportunities to design, make products by working efficiently (such as by carefully selecting materials), refine work and techniques as work progresses and continually evaluate the product design.</li></ul>

	 <p>The image contains three distinct visual elements. On the left is a blue grid titled 'Constellations made from 5 largest cities in each state', showing 50 star patterns corresponding to US states. In the center is a simple, empty wooden picture frame. On the right is a schematic diagram of a series circuit containing a battery, a switch, a wire, and a light bulb.</p>
<p><b>New Vocabulary</b></p>	<p>precision – to do something with accuracy  component – a small piece of a larger selection  continual – to continue to do something  prototype – a first version where ideas are developed  refinement – to neaten something up  motivated – to be inspired by something  sawing – using a saw to cut  filing – using a file to smooth a surface</p>
<p><b>Post Learning</b></p>	<p>Key stage 3 Design Technology National Curriculum.</p>