



## What I will know and understand by the end of Year 7

This year in Technology we will be learning:		This links to:	Key Vocabulary:
<b>1</b>	<p>Engineering unit</p> <ul style="list-style-type: none"> <li>How to complete a risk assessment and work safely at all times in the workshop, whilst using a variety of machine and hand tools</li> <li>That a polymer is a plastic and is sourced from crude oil. Students will learn the two categories of polymers, along with examples and applications</li> <li>What the definition of a smart and modern material is, along with examples and applications for all</li> </ul>	<p>In primary school, students may have begun to use basic workshop hand tools and have completed some practical with woods and plastic, you will be developing these skills and using more complex machinery,</p>	<ul style="list-style-type: none"> <li>Hazard</li> <li>Polymer</li> <li>Thermosetting and thermoplastic</li> <li>Thermochromic</li> <li>Nano</li> <li>Sequence</li> </ul>
<b>2</b>	<p>Paper and board unit</p> <ul style="list-style-type: none"> <li>How to successfully communicate ideas, using isometric drawing and accurate shading techniques to make a product look realistic</li> <li>What a mechanism and lever are, along with the different real life products and systems they are used in</li> <li>How paper is made, along with learning about a range of different papers and boards, their properties and applications</li> </ul>	<p>In Primary school, students will use a lot of paper and board to model with, so it will be very familiar. We will now extend this knowledge, by learning in depth about the different types of paper and board that are available, along with their properties. Students will be used to drawing design ideas; however now we will be looking at how to communicate them in a more professional way, like a designer or engineer would.</p>	<ul style="list-style-type: none"> <li>Millimetre</li> <li>Pulp</li> <li>Gradient</li> <li>Mechanism and lever</li> <li>Isometric</li> <li>Design brief</li> </ul>
<b>3</b>	<p>Textiles unit</p> <ul style="list-style-type: none"> <li>What a fibre is, along with learning about the properties of a variety of different fabrics and their applications</li> <li>How to complete a risk assessment successfully for a textiles environment, whilst using a sewing machine safely and effectively</li> <li>How to hand stitch successfully, to complete an applique design</li> </ul>	<p>Students will have very likely completed a textile project in Primary school, in this unit we will build upon what hand sewing skills they have. Students will be beginning to appreciate that materials are sourced and then processed to be made into a usable material</p>	<ul style="list-style-type: none"> <li>Fibres</li> <li>Stitch</li> <li>Applique</li> <li>Specific</li> <li>Synthetic</li> <li>Evaluation</li> </ul>

<b>Target Grade:</b>		<b>AP1:</b>		<b>AP2:</b>		<b>AP3:</b>		<b>End of year exam</b>	
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