

# Year 8 Design and Technology Descriptors

	Developing	Securing	Extending
Design	<ul style="list-style-type: none"> <li>Pupils generate ideas using different types of research</li> <li>Pupils have an understanding that their designs need to meet a range of different needs and users</li> <li>Pupils use design briefs to design new products and make prototypes</li> <li>Pupils consider existing designers and products</li> </ul>	<ul style="list-style-type: none"> <li>Pupils develop ideas using a range of sources of information</li> <li>Pupils develop and model ideas explaining the form and function</li> <li>Pupils respond creatively to briefs showing understanding of the impact on culture and society with reference to the target market</li> <li>Pupils use a design specification with detailed criteria to explore design proposals and explain design decisions</li> <li>Pupils explain their use of a range of materials, ingredients and techniques</li> <li>Pupils reference existing designers and products as they develop their ideas</li> </ul>	<ul style="list-style-type: none"> <li>Pupils develop ideas using a wide range of appropriate sources of information</li> <li>Pupils develop and model ideas applying understanding of form and function</li> <li>Pupils respond creatively to briefs showing understanding of the impact on culture and society</li> <li>Pupils identify the needs of a range of users to develop fully realistic products</li> <li>Pupils use a design specification with detailed criteria and apply this to their design proposals, fully explaining design decisions</li> <li>Pupils apply knowledge and understanding of a range of materials, ingredients and techniques</li> <li>Pupils reference existing designers and products to inform their own creative ideas</li> <li>Pupils link their design ideas to environmental dimensions</li> </ul>
Make	<ul style="list-style-type: none"> <li>Pupils produce plans of making/production plans</li> <li>Pupils apply knowledge and understanding of materials, ingredients and components to produce products with a good quality of finish that are fit for purpose</li> </ul>	<ul style="list-style-type: none"> <li>Pupils produce plans of making, allowing for modifications where appropriate</li> <li>Pupils work with a range of tools, materials, ingredients, equipment, components and processes with precision showing they understand the characteristics and properties, to produce products with a good quality of finish that are fit for purpose</li> </ul>	<ul style="list-style-type: none"> <li>Pupils produce detailed plans of making, allowing for modifications where appropriate</li> <li>Pupils work with an extensive range of tools, materials, ingredients, equipment, components and processes with precision taking full account of their characteristics and properties, to produce products with a high quality of finish that are fit for purpose</li> <li>Pupils produce a gantt chart to predict the time needed to carry out the main stages of making products</li> </ul>
Evaluate	<ul style="list-style-type: none"> <li>Pupils identify technical problems and consider what is successful and what could be improved</li> <li>Pupils evaluate the success of their product at all stages of the design process</li> </ul>	<ul style="list-style-type: none"> <li>Pupils test their work as it develops and solve technical problems by modifying their approach</li> <li>Pupils consider how effectively they have used research to inform their judgements when developing products</li> <li>Pupils evaluate products while they are being used and identify ways of improving them</li> </ul>	<ul style="list-style-type: none"> <li>Pupils modify/adapt their methods of manufacture to changing circumstances as they solve technical problems, providing a sound explanation for any change from the design proposal</li> <li>Pupils evaluate how effectively they have used information sources to inform their judgements when developing products</li> <li>Pupils select appropriate techniques to evaluate how their products would perform when used and modify their products as a result of this evaluation to improve their performance</li> </ul>

Technical Knowledge			
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