Year 9 Design and Technology Descriptors

	Developing	Securing	Extending
Design	 Pupils develop ideas using a range of sources of information Pupils develop and model ideas explaining the form and function Pupils respond creatively to briefs showing understanding of the impact on culture and society with reference to the target market Pupils use a design specification with detailed criteria to explore design proposals and explain design decisions Pupils reference existing designers and products as they develop their ideas 	 Pupils develop ideas using a wide range of appropriate sources of information Pupils develop and model ideas applying understanding of form and function Pupils respond creatively to briefs showing understanding of the impact on culture and society Pupils identify the needs of a range of users to develop fully realistic products Pupils use a design specification with detailed criteria and apply this to their design proposals, fully explaining design decisions Pupils apply knowledge and understanding of a range of materials, ingredients and techniques Pupils reference existing designers and products to inform their own creative ideas Pupils link their design ideas to environmental dimensions 	 Pupils independently seek out information to develop ideas using an extensive range of appropriate sources of information Pupils synthesise a range of strategies to develop and model ideas applying understanding of form and function in an innovative way Pupils respond creatively to briefs showing understanding of the impact on culture and society Pupils identify the needs of a range of users, clients and consumers to develop fully realistic and functioning products Pupils use a design specification with extensively detailed criteria and apply this to their design proposals, fully explaining design decisions Pupils apply knowledge and understanding of a range of materials, ingredients, techniques and processes Pupils how discrimination when referencing existing designers and products to inform their own creative ideas Pupils link their design ideas to environmental, ethical, social and
Make	 Pupils produce plans of making, allowing for modifications where appropriate 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 	 Pupils produce detailed plans of making, allowing for modifications where appropriate 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 Pupils produce a gantt chart to predict the time needed to carry out the main stages of making products 	 cultural dimensions Pupils produce detailed plans of making including quality control measures, allowing for modifications where appropriate Pupils work with an extensive range of tools, materials, ingredients, equipment, components and processes with a high degree of precision taking full account of their characteristics and properties, to produce products with a very high quality of finish that are fit for purpose Pupils produce a gantt chart to predict the time needed to carry out the main stages of making products
Evaluate	 Pupils test their work as it develops and solve technical problems by modifying their approach Pupils consider how effectively they have used research to inform their judgements when developing products Pupils evaluate products while they are being used and identify ways of improving them 	 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 Pupils evaluate how effectively they have used information sources to inform their judgements when developing products 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 	 Pupils modify/adapt their methods of manufacture to changing circumstances as they solve demanding technical problems, providing a sound explanation for any change from the design proposal Pupils critically evaluate how effectively they have used a range of information sources to inform their judgements when developing products Pupils identify and apply a broad range of criteria and methods of evaluation and modify their products as a result of this evaluation to improve their performance

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