



Design and Technology - Long-term curriculum plan (2024-25)



	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Year 7	<p><u>Group 1: Pewter casting</u> Metals and Alloys CAD Casting and finishing metal</p> <p><u>Group 1: Toy Truck</u> Timbers and manufactured boards Practical</p> <p><u>Group 1: Food introduction</u> Health and Safety Introduction to cooking techniques Eat Well Guide</p>	<p><u>Group 1: Pewter casting</u> Metals and Alloys CAD Casting and finishing metal</p> <p><u>Group 1: Toy Truck</u> Timbers and manufactured boards Practical</p> <p><u>Group 1: Food introduction</u> Health and Safety Introduction to cooking techniques Use of small electrical equipment</p>	<p><u>Group 2: Pewter casting</u> Metals and Alloys CAD Casting and finishing metal</p> <p><u>Group 2: Toy Truck</u> Timbers and manufactured boards Practical</p> <p><u>Group 2: Food introduction</u> Health and Safety Introduction to cooking techniques Eat Well Guide</p>	<p><u>Group 2: Pewter casting</u> Metals and Alloys CAD Casting and finishing metal</p> <p><u>Group 2: Toy Truck</u> Timbers and manufactured boards Practical</p> <p><u>Group 2: Food introduction</u> Health and Safety Introduction to cooking techniques Use of small electrical equipment</p>	<p><u>Group 3: Pewter casting</u> Metals and Alloys CAD Casting and finishing metal</p> <p><u>Group 3: Toy Truck</u> Timbers and manufactured boards Practical</p> <p><u>Group 3: Food introduction</u> Health and Safety Introduction to cooking techniques Eat Well Guide</p>	<p><u>Group 3: Pewter casting</u> Metals and Alloys CAD Casting and finishing metal</p> <p><u>Group 3: Toy Truck</u> Timbers and manufactured boards Practical</p> <p><u>Group 3: Food introduction</u> Health and Safety Introduction to cooking techniques Use of small electrical equipment</p>
Year 8	<p><u>Group 1: Lamp</u> Metals and Alloys Electronic components Drawing techniques Practical</p> <p><u>Group 1: Train</u> Engineering drawings Timber joints Practical</p> <p><u>Group 1: International cuisine</u> Reasons for food choices Middle skill cooking techniques Basic sauces</p>	<p><u>Group 1: Lamp</u> Metals and Alloys Electronic components Drawing techniques Practical</p> <p><u>Group 1: Train</u> Engineering drawings Timber joints Practical</p> <p><u>Group 1: International cuisine</u> Food provenance Middle skill cooking techniques Basic sauces</p>	<p><u>Group 2: Lamp</u> Metals and Alloys Electronic components Drawing techniques Practical</p> <p><u>Group 2: Train</u> Engineering drawings Timber joints Practical</p> <p><u>Group 2: International cuisine</u> Reasons for food choices Middle skill cooking techniques Basic sauces</p>	<p><u>Group 2: Lamp</u> Metals and Alloys Electronic components Drawing techniques Practical</p> <p><u>Group 2: Train</u> Engineering drawings Timber joints Practical</p> <p><u>Group 2: International cuisine</u> Food provenance Middle skill cooking techniques Basic sauces</p>	<p><u>Group 3: Lamp</u> Metals and Alloys Electronic components Drawing techniques Practical</p> <p><u>Group 3: Train</u> Engineering drawings Timber joints Practical</p> <p><u>Group 3: International cuisine</u> Reasons for food choices Middle skill cooking techniques Basic sauces</p>	<p><u>Group 3: Lamp</u> Metals and Alloys Electronic components Drawing techniques Practical</p> <p><u>Group 3: Train</u> Engineering drawings Timber joints Practical</p> <p><u>Group 3: International cuisine</u> Food provenance Middle skill cooking techniques Basic sauces</p>
Year 9	<p><u>Group 1: Storage box</u> Timbers Work of others</p>	<p><u>Group 1: Storage box</u> Timbers Work of others</p>	<p><u>Group 2: Storage box</u> Timbers Work of others</p>	<p><u>Group 2: Storage box</u> Timbers Work of others</p>	<p><u>Group 3: Storage box</u> Timbers Work of others</p>	<p><u>Group 3: Storage box</u> Timbers Work of others</p>



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	Practical Group 1: Coat hook Metals & polymers Work of others Practical Group 1: Food industry Food science Higher skill cooking techniques	Practical Group 1: Coat hook Metals & polymers Work of others Practical Group 1: Food industry Sustainability Higher skill cooking techniques	Practical Group 2: Coat hook Metals & polymers Work of others Practical Group 2: Food industry Food science Higher skill cooking techniques	Practical Group 2: Coat hook Metals & polymers Work of others Practical Group 2: Food industry Sustainability Higher skill cooking techniques	Practical Group 3: Coat hook Metals & polymers Work of others Practical Group 3: Food industry Food science Higher skill cooking techniques	Practical Group 3: Coat hook Metals & polymers Work of others Practical Group 3: Food industry Sustainability Higher skill cooking techniques
Year 10	Core Technical Principals: 3.1.1 New and emerging technologies. 3.1.2 Energy generation and storage. 3.1.4 Systems approach to designing. 3.1.5 Mechanical devices 3.1.3 Developments in new materials. 3.1.6 Materials and their working properties.	Specialist Technical principles 3.2.1 Selection of materials or components. 3.2.5 Using and working with materials. 3.2.7 Scales of production 3.2.3 Ecological and social footprint 3.2.8 Specialist techniques and processes 3.3.9 Material Management	NEA style project: 3.3.1 Investigation, primary and secondary data. 3.3.3 The work of others. 3.3.5 Communication of ideas.	NEA style project: 3.2.8 Specialist techniques and processes. 3.3.8 Tolerances. 3.2.9 Surface treatments and finishes.	NEA style project: 3.3.6 Prototype development. 3.3.10 Specialist tools and equipment. 3.3.11 Specialist techniques and processes. 3.2.7 Scales of production 3.2.5 Using and working with materials	NEA – Context - AO1 – section A: Identifying & investigating design possibilities (10 marks).
Year 11	AO1 – section A: Identifying & investigating design possibilities (10 marks). AO1 – Section B: Design brief Specification (10 Marks)	AO2 – Design and make prototypes that are fit for purpose Section C: Generating design ideas (20 marks) AO2 – Section D: Developing design ideas (20 marks)	AO2 – Section E Realising design ideas (20 marks)	AO2 – Section E Realising design ideas (20 marks) AO3 – Analyse and Evaluate - Section F Analysing and evaluating (20 Marks)	Topic revision Exam technique and skills	