

KS4 Curriculum Overview

Subject: RM Technology



	Accreditation	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 10 Entry Pathways	WJEC Creative, Media and Performance Arts 6220 - This unit aims to help learners to acquire the knowledge and skills to design and model a product of their own choosing. 6222 - This unit aims to help learners to acquire the knowledge and skills to plan	Health and Safety – 6223 (A series of focussed practical tasks) Know about hazard or risks in the workshop environment. Be able to apply health and safety practices. Be able to make a risk assessment.	AC1.1 Explain why there may be a hazard or risk in specific workshop areas. AC1.2 Explain why there may be a hazard or risk when using general tools such as hand tools. AC1.3 Explain where there may be a hazard or risk when using machines such as pillar drills, lathes etc.	Planning – 6222 (developing plans/strategies for making a wooden product in Y11) Know the importance of planning the making of a product. Be able to create a plan of manufacture. Be able to review a plan of manufacture. AC1.1 Explain the key points to be taken into account in manufacturing the chosen product. AC1.2 Describe the main stages of manufacturing the product. AC1.3 Estimate the length of time required for different	Designing and Modelling – 6220 Know how to research features of a product suitable for design work. Be able to create a design brief and specification. Be able to present design ideas. AC1.1 Find images of a similar product or products to that chosen for design work. AC1.2 Comment on the key features of a chosen product or products chosen for design work. AC2.1 Create a design brief for the planned product. AC2.2 Write a design specification for the chosen product.		

	<p>the making of a product of their own choosing.</p> <p>6223 - This unit aims to help learners to acquire and apply Health and Safety working practices in the context of Design and Technology work.</p>	<p>AC2.1Select the correct tool(s) for a particular process of making.</p> <p>AC2.2 Select the correct equipment for making the product in the correct manner.</p> <p>AC2.3 Use general workshop machinery with limited guidance.</p> <p>AC2.4 Explain Health and Safety symbols and diagrams.</p> <p>AC3.1 Produce a risk assessment for a given situation.</p>	<p>stages of manufacturing the product.</p> <p>AC1.4 Give reasons for the estimates of time required.</p> <p>AC2.1 Produce a detailed plan of manufacture.</p> <p>AC2.2 Identify the tools and processes required to manufacture the product.</p> <p>AC3.1 Make changes to their plan of manufacture where appropriate.</p> <p>AC3.2 Record changes to their plan of manufacture.</p> <p>AC3.3 Explain the reasons for changing their plan (e.g. more efficient and/or effective production).</p>	<p>AC2.3 Explain the purpose of the planned product.</p> <p>AC 3.1 Communicate creative design ideas using, 2D/ 3D sketches or drawings.</p> <p>AC3.2 Produce a working drawing.</p> <p>AC 3.3 Select a design and show how it meets the brief.</p>
<p>Links to RRS, PFA, SMSC.</p>		<p>CDI Outcome: 1,2,3,5,6,9,11,12 PFA: 1,2,3 SMC: 2,3 RRS: 1,12,15,16,17,23,24,27,28,29,30</p>	<p>CDI Outcome: 1,2,3,4,5,6,9,11,14,15,17 PFA: 2 SMSC: 3 RRS: 1,12,15,16,17,23,24,27,28,29,30</p>	<p>CDI Outcome: 1,2,3,5,6,9,11,12,15,17 PFA: 2,4 SMSC: 2,3 RRS: 1,12,15,16,17,23,24,27,28,29,30</p>

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<p>Year 11</p> <p>Entry Pathways</p>	<p>WJEC Creative, Media and Performance Arts</p> <p>6220 - This unit aims to help learners to acquire the knowledge and skills to design and model a product of their own choosing.</p> <p>6221 - This unit aims to help learners to acquire the knowledge and skills to make a product of their own choosing.</p>	<p>Designing and Modelling – 6220 Know how to research features of a product suitable for design work. Be able to create a design brief and specification. Be able to present design ideas.</p> <p>AC1.1 Find images of a similar product or products to that chosen for design work. AC1.2 Comment on the key features of a chosen product or products chosen for design work. AC2.1 Create a design brief for the planned product. AC2.2 Write a design specification for the chosen product. AC2.3 Explain the purpose of the planned product. AC 3.1 Communicate creative design ideas using, 2D/ 3D sketches or drawings. AC3.2 Produce a working drawing. AC 3.3 Select a design and show how it meets the brief.</p>	<p>Autumn 2</p>	<p>Making A Product - 6221 Be able to choose suitable materials for the chosen product. Be able to manufacture their chosen design. Review their manufactured product.</p> <p>AC1.1 Select appropriate material(s) for the chosen product. AC1.2 Explain their choice of materials. AC1.3 Choose appropriate fixing methods. AC1.4 Explain their choice of fixing methods. AC2.1 Select appropriate tools for making the product. AC2.2 Use equipment for making the product in a correct manner. AC2.3 Apply an appropriate finish to the product. AC3.1 Identify the main strengths and weaknesses of their product design. AC3.2 Make suggestions for improvement.</p>	<p>Spring 2</p>	<p>Completing Portfolio</p> <p>Complete missing elements of units. Gather any additional evidence of achievements. Compile work and present in a form at acceptable to examination board. Complete any administrative documents as required and sign to authenticate.</p>	<p>Summer 2</p>

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