

West Kirby School Curriculum Plan Key Stage 3

Subject	Design and Technology
Subject Lead	Chris Saunders

Year	Autumn		Spring		Summer 1	
1	<p>Island/Film Set</p> <p>Health and Safety Baseline Assessment:</p>	<p>Materials: Card stock and polystyrene. Design: Designing for a user and client. Designing to scale, creating scale models. Make: Cutting Knives and hot Glue. Layering effects. Evaluate: What makes a good scale model? How can you improve your skills?</p>	<p>Night Light Project</p> <p>Recap Health and Safety</p>	<p>Materials: Polymers Classification. What is a polymer? What is a circuit? Design: Designing with restrictions Orthographic Projection & Rendering Make: Thermo - Forming Shaping manufactured boards Basic circuitry and soldering Evaluate: Does your product work? How can you fix problems?</p>	<p>CAD Clock Project</p> <p>Recap Health and Safety</p>	<p>Materials: Working with acrylics and vinyl, cutting and finishing techniques. Design: CAD What is computer aided design? Learn to use the basics of 2D software to design products Make: What is CAM? Use the Vinyl to produce your final product! Evaluate: How has CAD / CAM helped you make a product?</p>
2	<p>FILM SET PROJECT</p> <p>Health and Safety Baseline Assessment:</p>	<p>Materials: Working with plastics, resins and wood to create a final product. Design: Designing for a user and client.</p>	<p>Mood Light Project</p> <p>Recap Health and Safety</p>	<p>Materials: Working with plastics, resins and wood to create a final product.</p>	<p>Mechanical Toy Project</p> <p>Recap Health and Safety</p>	<p>Materials: Timbers - hard woods and softwoods, why do we use them? Cams / motions & movements: What</p>

		<p>Designing to scale, creating scale models.</p> <p>Make: Can you make an accurate product using machines and tools independently?</p> <p>Evaluate: At each stage of making, how can you improve your product? Would you change any thing</p>		<p>Design: Isometric projection, CAD development.</p> <p>Make: Develop your design through iterative processes and modelling, testing & evaluating before making a final product.</p> <p>Evaluate: What skills have you developed? Test your product and consider how you would improve it.</p>		<p>do cams do? How do they work?</p> <p>Design: Isometric projection, CAD development.</p> <p>Testing / Modelling: Will my product work? What can I do to improve it?</p> <p>Make: Can you make an accurate product using machines and tools independently? Develop independence in CAD using Autodesk design software to make complex design ideas.</p> <p>Evaluate: What skills have you developed? Test your product and consider how you would improve it.</p>
3	Scale Modelling: Film Set Design.	Design: Designing for a user and client.	Designer Lighting Recap Health and Safety	Materials: Working with plastics, resins	BOX PROJECT: Designer Box	Materials: Use materials you have not combined

	<p>Health and Safety</p>	<p>Designing to scale, creating scale models. Make: Develop your design through iterative processes and modelling, testing & evaluating before making a final product. Evaluate: At each stage of making, how can you improve your product? Would you change anything?</p>		<p>and wood to create a final product Design: Reference key design movements top to develop a stylish functional product. Materials / Make: Use materials you have not combined before such as concrete, acrylic and timber to develop a unique stylized product. Evaluate: At each stage of making, how can you improve your product? Would you change anything?</p>		<p>before such as concrete, acrylic and timber to develop a unique stylized product. Design: Reference key design movements top to develop a stylish functional product. Make: Develop your design through iterative processes and modelling, testing & evaluating before making a final product. Evaluate: At each stage of making, how can you improve your product? Would you change anything?</p>
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