



DRAYTON MANOR HIGH SCHOOL

Faculty Curriculum Map

Faculty Arts and DT

Department Design Technology

	Product Design	Graphics	Textiles	FPN
<p>Year 7 (10 wk rotation – 2 lessons a wk)</p>	<p>Project Title: Plastic Mini Torch</p> <ul style="list-style-type: none"> Where plastics come from and the main categories Design analysis and idea generation Cutting and shaping plastics <p>Project Title: Pewter Keyring</p> <ul style="list-style-type: none"> Where metals come from and the main categories Idea generation using drawing and CAD Casting and finishing metals <p>Project Title: 3D Printed Pencil Topper</p> <ul style="list-style-type: none"> Pros and cons of Rapid Prototyping Skills and idea generating using Autodesk Inventor 	<p>Project Title: Hand Drawing Skills</p> <ul style="list-style-type: none"> Presentation skills, rendering and hand drawing techniques Sketching, Isometric, one and two-point perspective <p>Project Title: Chocolate Bar Wrapper</p> <ul style="list-style-type: none"> Logo design and development Nets and packaging design <p>Project Title: 2D Design CAD skills</p> <ul style="list-style-type: none"> CAD/CAM Programme features and drawing skills 	<p>Project Title: Phone Case</p> <ul style="list-style-type: none"> Natural and man-made fabrics and sources Textile techniques and hand stitches Creating initial and final designs that meet a design brief and specification Pattern making Sewing machine skills 	<p>Project Title: Time for lunch</p> <ul style="list-style-type: none"> Health, safety & kitchen hygiene Basic preparation & cooking skills Equipment and their functions including the cooker Healthy eating - fruit and vegetables Sensory analysis Designing and adapting recipes with the focus on meeting aspects of the Eatwell guide
<p>Year 8 (10 wk rotation – 2 lessons a wk)</p>	<p>Project Title: Ergonomic Pen</p> <ul style="list-style-type: none"> What ergonomics is and how anthropometric data is used in design Modelling materials and iterative design Cutting and shaping plastics <p>Project Title: Wood joints – Photo frame</p> <ul style="list-style-type: none"> Where woods come from and the main categories What wood joints are and the purpose Cutting and shaping woods Wood finishes 	<p>Project Title: Adobe Illustrator skills</p> <ul style="list-style-type: none"> The difference between vectors and pixels Programme features and drawing skills <p>Project Title: Adobe Photoshop skills</p> <ul style="list-style-type: none"> Programme features and drawing skills Manipulating images to meet a design brief <p>Project Title: Creative packaging</p> <ul style="list-style-type: none"> The purpose of packaging The impact of over-packaging on the environment 	<p>Project Title: Puggly</p> <ul style="list-style-type: none"> Fabric properties Creating initial and final designs that meet a design brief and specification Pattern making Textile techniques and hand stitches Sewing machine skills E-Textiles 	<p>Project Title: Eating around the Eatwell Guide</p> <ul style="list-style-type: none"> Health, safety & kitchen hygiene Food storage Theory and practical sessions based on individual sections of the Eatwell guide How to handle raw meat/fish Cooking techniques – grilling, pané, stir fry, kneading How to write a time plan Saturated vs Unsaturated fats
	Product Design	Graphics	Systems and Control	Textiles
				Textiles
				FPN

<p>Year 9 (8 wk rotation – 1 lesson a wk)</p>	<p>Project Title: Iterative Design Gripper</p> <ul style="list-style-type: none"> • What iterative design is and how it is used within the design industry • Modelling • Levers and Mechanisms • Design evaluation and modification • Shaping, drilling and pop riveting metals and woods 	<p>Project Title: ??? ???</p>	<p>Project Title: Lamp</p> <ul style="list-style-type: none"> • Iterative design, upcycling and the 6R's • System processes • Electrical components and their functions Mechanical properties of metals and plastics as well as their environmental implications • Accurately constructing an electrical circuit 	<p>Project Title: Recycled Bag</p> <ul style="list-style-type: none"> • Manufacturing specifications • Sustainability within the textile industry • Scaled drawings and pattern making • Textile techniques and hand stitches • Sewing machine skills 	<p>Project Title: World Foods</p> <ul style="list-style-type: none"> • Recapping health and safety • Researching a country of choice • How to write an in depth time plan with the consideration of contingencies etc • Sensory analysis • Dietary needs • Adaptation of recipes • Types of cuisines
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