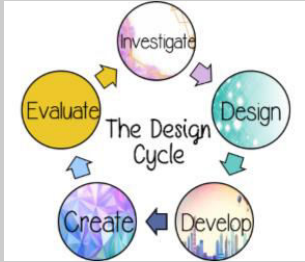


Curriculum Narrative-

Subject: Design and Technology	Year: 8	Author: H.Drewery
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Key Knowledge <i>Pupils will know</i>	Key Skills <i>Pupils will be able to</i>
<p><u>Key Threshold Concepts:</u></p> <ul style="list-style-type: none"> • Develop, plan, and communicate ideas • Work with tools, equipment, materials, and components to make quality Products • Know and understand materials and components • Evaluate processes and products 	<p><u>Subject Skills:</u></p> <p>Our KS3 learners are taught to work with a wide range of materials such as wood, metal, plastic and graphic materials. They will learn new practical skills to support constructing and communicating their designs.</p> <p>The skills which are taught are based around designing and making, they include:</p> <ul style="list-style-type: none"> • Health and Safety rules when using equipment and machines in a workshop environment • An understanding of materials and their properties • Accurately measuring and marking out a wide range of materials • Cutting and shaping of a varied range of materials, such as; wood, metal, plastics, card and paper • Evaluating existing and self-made products.

<p><u>Subject Specific Knowledge and Sequencing:</u></p> <p><u>KS3 all have 5 week rotations with Art, Tech, ICT, PSHE and Food</u></p> <p><u>Rotation 1:</u> <u>Topic:</u> Textiles (<i>practical-Cushion</i>) <u>Key Concepts:</u> Understand develop and communicate design ideas using annotated sketches, detailed plans, tools and equipment, printing techniques and quality checks. <u>Key Knowledge:</u> looking into where textiles come from, tools and equipment, sewing techniques, pinning and tacking, improving aesthetics including the heat press process.</p> <p><u>Homework Project:</u> A booklet explaining different ways you can add detail and design to fabric.</p> <p><u>Rotation 2:</u> <u>Topic:</u> Revisiting Wood (<i>Bird box practical</i>) <u>Key Concepts:</u> Understanding Softwoods and hardwoods and connecting wood.</p>	<p><u>Prerequisites and Spiral Teaching:</u></p> <ul style="list-style-type: none"> • Students will start year 8 with basic knowledge in wood, metals, plastic. • Variety of different drawing techniques including isometric and 2d sketching. • Understanding the concept behind a practical and the order of the design cycle • Building on previous learning from year 7 through basic drawing skills, practical skills including materials uses and properties and appropriate tools and equipment. • In year 8 pupils will also build on evaluation skills and evaluate and reflect and the processes and techniques used for each project
<p><u>Cross-Curricular Knowledge Links</u></p> <ul style="list-style-type: none"> • English- Evaluating, Speaking and listening skills • Maths- Measuring skills, isometric drawings (3d shapes) analysing data • Science- Systems & Control • Art/History- Design movements • Citizenship- Communication skills/Teamwork 	



Key Knowledge: Types of wood, Tools and equipment, Finishing techniques, quality checks, evaluating and reflecting on skills.

Homework Project: A Bird box manufacture diary and a Poster advertising the product and brand

- **Geography-** Environmental impacts, Sustainability and recycling
- **ICT-** Use of Microsoft Office, Adobe Software

Reading Lists / Sources / Reading around the subject recommendations:

- [Pop Art \(Art Revolutions\) by Linda Bolton](#)
- [Basic technical drawing by McGraw-Hill Education](#)
- [CGP Design and Technology Revision guide and workbook](#)
- [D&T app for smartphones](#)
- www.bcbitesize.co.uk
- www.technologystudent.co.uk
- www.ncfe.co.uk
- www.aqa.co.uk