

DT Year 7 Curriculum overview

The below is intended to provide parents and pupils with a simple overview of Year 7 Design Technology. Should you have additional questions please do not hesitate to contact Miss Dickson.

Learning Focus	Assessments
Unit 1: Polymers, Sustainability and Hand tools (c. 12 lessons)	
<ul style="list-style-type: none"> • <u>Learning focus:</u> <ol style="list-style-type: none"> 1. Workshop health and safety 2. Iterative design process 3. Polymers physical and working properties. 4. Using a design brief and specification. 5. Freehand sketching, shading and annotating sketches. 6. Templates for production 7. Marking out, modification and finishing of materials 8. Specialist workshop tools and safe use 9. Evaluation of outcome against criteria <p><u>Key Skills:</u> Designing sustainably using recycled plastic, shading and annotating design ideas, working with polymers as material selection, safe use of hand tools and fixed machinery.</p>	<p>Interim Assessment: Silent starter recall will assess understanding every lesson.</p> <p>Final Unit Assessment: This will test spelling, knowledge and understanding of the learning focuses.</p> <p>Homework: Forms quiz checking knowledge and understanding of the learning focuses.</p> <p>Whole class reading: 6 R's reading</p>
Unit 2: Paper/ board, Sustainability and CAD/CAM (c. 12 lessons)	
<ul style="list-style-type: none"> • <u>Learning focus:</u> <ol style="list-style-type: none"> 1. Using a design brief. 2. Using a product specification 3. Paper boards physical and working properties. 4. Using design criteria. 5. CAD modelling of idea 6. Production of models/ prototypes using CAM to test ideas. 7. Comparison of handmade v CAD/CAM production 8. Evaluation of outcome against criteria <p><u>Knowledge revisited:</u></p> <ol style="list-style-type: none"> 1. Brief and specification 2. Sustainability 3. Design skills 4. Templates for production 5. Evaluation <p><u>Key Skills:</u> Designing sustainably using paper and boards as a material selection, drawing in TechSoft 2D design (CAD) and using the laser cutter to manufacture prototypes (CAM).</p>	<p>Interim Assessment: Silent starter recall will assess understanding every lesson.</p> <p>Final Assessment: This will test spelling, knowledge and understanding of the learning focuses.</p> <p>Homework: Forms quiz checking knowledge and understanding of the learning focuses.</p> <p>Whole class reading: Climate change.</p>
Unit 3: E-Textiles (c. 12 lessons)	
<ul style="list-style-type: none"> • <u>Learning focus:</u> <ol style="list-style-type: none"> 1. Using a design brief 2. Making specification choices 3. Applying design criteria 	<p>Interim Assessment: Silent starter recall will assess understanding every lesson.</p>

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4. Textiles physical and working properties.
5. Smart materials and their use
6. Production of templates, looking at toiles.
7. Design principles in electronics (schematics)
8. Electronic components key knowledge
9. Sewing skills
10. Evaluation of outcome against criteria

Knowledge revisited:

1. Brief and specification
2. Design criteria
3. Sustainability
4. Design principles
5. Templates for production
6. Evaluation

Key Skills: Drawing electronic symbols, drawing schematic diagrams, working with textiles as material selection and applying sewing skills to manufacture a prototype.

Final Assessment: This will test spelling, knowledge and understanding of the learning focuses.

Homework: Forms quiz checking knowledge and understanding of the learning focuses.

Whole class reading:
Technical textiles.