

Springwood High School Design and Technology Curriculum Plan

Our Vision:

To improve young people's practical skills and subject knowledge in Textiles (fabric) R.M (wood) and Graphics (card).

Exam boards: KS4 – AQA Design & Technology <https://www.aqa.org.uk/subjects/design-and-technology/gcse/design-and-technology-8552/specification-at-a-glance>

Brief overview of topics, themes, skills or key questions for each term:

Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
7	Introduction to Graphics: Develop drawing skills. Develop colour application. Learn about smart materials and their characteristics.	Introduction to Designing & Product Analysis to inspire creativity & ideas. Learn about materials and their characteristics. Learn about 6R's.	Introduction to Soldering (joining method): Learn about Health and Safety in D&T. Learn about materials and their characteristics. Designing. Evaluations	Introduction to Textiles: Learn to sew. Learn about basic materials and their characteristics.	Introduction to The Timber & Workshop: Learn about Health and Safety in D&T. Learn about materials and their characteristics. Design ideas. Isometric skills.	Production Plans & evaluations to identify strengths & weaknesses for improvements.
	Practical: Make a Battery Tester Mini Assessment: Smart Materials and Design.	Practical: Design a range of concepts.	Practical: Soldering a circuit and net box construction in Graphics. Assessment: End of topic test.	Practical: Running, back blanket & sew a button on sample.	Practical: Timber & acrylic frame.	Practical: Decorate Timber & acrylic frame. Assessment: End of topic test.
8	Textiles: Learn about materials and their characteristics. Learn to sew.	Introduction to Designing & Product Analysis to inspire creativity & ideas.	Textiles: Learn about Health and Safety in D&T. Learn Textile terminology and	Introduction to Graphics: Font & Typography designs. Learn about	Introduction to The Timber & Workshop: Learn about Health and Safety in D&T. Learn about	Production Plans & evaluations to identify strengths & weaknesses for improvements.

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	Learn Health & safety rules.	Learn about production processes.	develop practical skills.	materials and their characteristics.	materials and their characteristics. Design ideas. Learn about production processes	
	Practical: Hand embroidery stitches.	Practical: Hand embroidery stitches continue.	Practical: Make a Textile product with embellishment. Assessment: End of topic test	Practical: Design page. Assessment: End of topic test.	Practical: Bird Box	Practical: Bird Box Assessment: End of topic test.

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9	<p>Introduction to Graphics: Isometric projections & elevations. Colour application. Fonts.</p>	<p>Graphics: Typography. Learn about materials and their characteristics. Standard components. Product analysis. Design concepts. CAD & CAM. Scale drawings. Net packaging. Evaluations</p>	<p>Introduction to Textiles: Learn about materials and their characteristics. Product analysis. Design concepts. Standard components. Introduction into Fashion designers. Ergonomics.</p>	<p>Textiles: Learn about production processes. Learn about Health & safety. Production plans. Step-by-step guides. Evaluations.</p>	<p>Introduction to The Timber & Workshop: Learn about Health and Safety in D&T. Learn about materials and their characteristics. Design ideas. Standard components. Learn about production processes</p>	<p>Timber: Levers. CAMS. Surface finishes. Production Plans & evaluations to identify strengths & weaknesses for improvements.</p>
	<p>Practical: Develop drawing skills.</p>	<p>Practical: 2D Design & laser cutter – packaging with embellishment. Assessment: End of Topic Test.</p>	<p>Practical: Hand embroidery samples. Joining methods.</p>	<p>Practical: Sewing machine Mobile phone bag & embellishment. Assessment: End of Topic Test.</p>	<p>Practical: Joining methods. Carpentry joints. Machinery & Tools. Year 9 Pre Public Exam Mock TBC.</p>	<p>Practical: Moving toy. Assessment: End of Topic Test.</p>
10	<p>D&T NEA Mock: Students can select their specialism for this project: Textiles, R.M, or Graphics or combine a selection of materials and skills. Section A: Mind map and problem. Product analysis to inspire ideas. Introduction into Art movements.</p>	<p>D&T NEA Mock: Section B: Design brief & spec Artist & Designer research to inspire concepts. Material research and characteristics. Section C/D/E Generating Design ideas. Development of designs Final design</p>	<p>D&T NEA Mock: Section E/F: Realisations of ideas: Prototyping of ideas. Evaluations on-going.</p>	<p>D&T NEA Mock: Evaluation. Production plan. Specification.</p>	<p>NEA <u>1st June.</u> D&T AQA Contextual Challenge released on this day. 50% of GCSE grade. Section A: Mind map and problem. Product analysis to inspire ideas.</p>	<p>D&T NEA: Section B: Design brief & spec Artist & Designer research to inspire concepts.</p>

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	Learn about production processes.	concepts.				
	Advanced Practical Skills: Joining methods: Soldering	Advanced Practical Skills: Joining methods Brazing. Laminating & Sewing machine.	Advanced Practical Skills: Joining methods: Acrylic (laser cutter), Carpentry & Graphics.	Advanced Practical Skills: Laser cutter Clock made in acrylic, fabric, wood, card or a range of materials.	Year 10 Pre Public Exam Mock TBC.	Students can select their specialism for this project: Textiles, R.M, or Graphics or combine a selection of materials and skills.

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11	<p>D&T NEA: 50% of GCSE grade.</p> <p>Section B: Material characteristics and joining methods research</p> <p>Section C/D/E: Generating Design ideas.</p>	<p>D&T NEA: 50% of GCSE grade.</p> <p>Section C/D/E Realisation of ideas Prototyping of samples and on-going evaluations.</p>	<p>D&T NEA: 50% of GCSE grade.</p> <p>Section E/F: Final prototype. Evaluation. Production plan. Final specification.</p>	<p>Revision: tips and techniques for the written exam, practise papers</p>	<p>Written Examination (50% of GCSE Grade)</p>	
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Enrichment Activities:

Super Learning Days: Year 7 Industrial Awareness Day (learn about environmental and sustainable issues, 6R's and materials).

Competitions: Year 8-9 Rotary Club D&T Competition (Venue KLA. Date November 2020).

Fashion Show Design Competition: Open to all year groups.

Trips: Year 10, 11, 12 & 13 Clothes Show Trip (Venue being confirmed)

Open Evenings: Year 9 & 10's can volunteer as ambassadors to promote D&T to Year 6's Open Evening.

Clubs & Support:

- Year 7 - 10: Fashion & Textiles Club (Every Tuesday) with Miss Markwell (October).
- Year 7 – 10 D&T Club (Every Wednesday) with Mr Austin (October)
- T4 is open every lunch-time for student's to work with Miss Markwell for extra support.

Main Textbook: AQA GCSE (9-1) Design and Technology.

ISBN: 978-1-910523-10-0 Author MJ Ross

Revision Guide: AQA GCSE Revision Design and Technology All-in-One Revision & Practice.

ISBN 978-0-00-822740-1 Author Paul Anderson and David Hills-Taylor





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