

UoB School Curriculum Outline – DESIGN TECHNOLOGY 2017/2018

	Term 1a	Term 1b	Term 2a	Term 2b	Term 3a	Term 3b
<p>Year 7 – KS3</p> <p>2 projects swapped after half point.</p>	<p>Rotation between:</p> <p><u>1.Electronics</u> steady hand game. (Circuits and components. Soldering and H&S)</p> <p>or</p> <p><u>2.Metal Sculptures.</u></p> <p>Ferrous and non ferrous metals.</p> <p>Brazing and welding.</p>	<p>Depending on rotation:</p> <p><u>1.Electronics</u> steady hand game. (Circuits and components. Soldering and H&S)</p> <p>or</p> <p><u>2.Metal Sculptures.</u></p> <p>Ferrous and non ferrous metals.</p> <p>Brazing and welding.</p>	<p>Depending on rotation:</p> <p><u>1.Electronics</u> steady hand game. (Circuits and components. Soldering and H&S)</p> <p>or</p> <p><u>2.Metal Sculptures.</u></p> <p>Ferrous and non ferrous metals.</p> <p>Brazing and welding.</p>	<p>Depending on rotation</p> <p><u>1.Electronics</u> steady hand game. (Circuits and components. Soldering and H&S)</p> <p>or</p> <p><u>2.Metal Sculptures.</u></p> <p>Ferrous and non ferrous metals.</p> <p>Brazing and welding.</p>	<p>Depending on rotation:</p> <p><u>1.Electronics</u> steady hand game. (Circuits and components. Soldering and H&S)</p> <p>or</p> <p><u>2.Metal Sculptures.</u></p> <p>Ferrous and non ferrous metals.</p> <p>Brazing and welding.</p>	<p>Depending on rotation:</p> <p><u>1.Electronics</u> steady hand game. (Circuits and components. Soldering and H&S)</p> <p>or</p> <p><u>2.Metal Sculptures.</u></p> <p>Ferrous and non ferrous metals.</p> <p>Brazing and welding.</p>

<p>Year 8 – KS3</p> <p>2 projects swapped after half point.</p>	<p>Rotation between:</p> <p><u>1.Design skills:</u></p> <p>Isometric drawings and textures.</p> <p>3D CAD - using 2d design software.</p> <p>Sketch up 3d modelling.</p> <p>or</p> <p><u>2.Desk organiser project:</u></p> <p>Generation design ideas, woods and design and make project.</p>	<p>Depending on rotation:</p> <p><u>1.Design skills:</u></p> <p>Isometric drawings and textures.</p> <p>3D CAD - using 2d design software.</p> <p>Sketch up 3d modelling.</p> <p>or</p> <p><u>2.Desk organiser project:</u></p> <p>Generation design ideas, woods and design and make project.</p>	<p>Depending on rotation:</p> <p><u>1.Design skills:</u></p> <p>Isometric drawings and textures.</p> <p>3D CAD - using 2d design software.</p> <p>Sketch up 3d modelling.</p> <p>or</p> <p><u>2.Desk organiser project:</u></p> <p>Generation design ideas, woods and design and make project.</p>	<p>Depending on rotation</p> <p><u>1.Design skills:</u></p> <p>Isometric drawings and textures.</p> <p>3D CAD - using 2d design software.</p> <p>Sketch up 3d modelling.</p> <p>or</p> <p><u>2.Desk organiser project:</u></p> <p>Generation design ideas, woods and design and make project.</p>	<p>Depending on rotation:</p> <p><u>1.Design skills:</u></p> <p>Isometric drawings and textures.</p> <p>3D CAD - using 2d design software.</p> <p>Sketch up 3d modelling.</p> <p>or</p> <p><u>2.Desk organiser project:</u></p> <p>Generation design ideas, woods and design and make project.</p>	<p>Depending on rotation:</p> <p><u>1.Design skills:</u></p> <p>Isometric drawings and textures.</p> <p>3D CAD - using 2d design software.</p> <p>Sketch up 3d modelling.</p> <p>or</p> <p><u>2.Desk organiser project:</u></p> <p>Generation design ideas, woods and design and make project.</p>
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	Term 1a	Term 1b	Term 2a	Term 2b	Term 3a	Term 3b
<p>Year 9 – KS3</p> <p>Rotation every term to include Food as a third rotation.</p>	<p>Rotation between:</p> <p><u>1.Portfolio skills & storage unit project</u></p> <p>Design and make small flat pack personal storage unit using MDF</p> <p>or</p> <p><u>2.Portfolio skills 3D CAD / CAM</u></p> <p>Design brief, target market, user needs / wants. Product analysis – ACCESSFM. Sketch up / Solid</p>	<p>Rotation between:</p> <p><u>1.Portfolio skills & storage unit project</u></p> <p>Design and make small flat pack personal storage unit using MDF</p> <p>or</p> <p><u>2.Portfolio skills 3D CAD / CAM</u></p> <p>Design brief, target market, user needs / wants. Product analysis – ACCESSFM. Sketch up / Solid</p>	<p>Rotation between:</p> <p><u>1.Portfolio skills & storage unit project</u></p> <p>Design and make Small flat pack Personal storage Unit using MDF</p> <p>or</p> <p><u>2.Portfolio skills 3D CAD / CAM</u></p> <p>Design brief, target market, user needs / wants. Product analysis – ACCESSFM. Sketch up / Solid</p>	<p>Rotation between:</p> <p><u>1.Portfolio skills & storage unit project</u></p> <p>Design and make Small flat pack Personal storage Unit using MDF</p> <p>or</p> <p><u>2.Portfolio skills 3D CAD / CAM</u></p> <p>Design brief, target market, user needs / wants. Product analysis – ACCESSFM. Sketch up / Solid</p>	<p>Rotation between:</p> <p><u>1.Portfolio skills & storage unit project</u></p> <p>Design and make Small flat pack Personal storage Unit using MDF</p> <p>or</p> <p><u>2.Portfolio skills 3D CAD / CAM</u></p> <p>Design brief, target market, user needs / wants. Product analysis – ACCESSFM. Sketch up / Solid</p>	<p>Rotation between:</p> <p><u>1.Portfolio skills & storage unit project</u></p> <p>Design and make Small flat pack Personal storage Unit using MDF</p> <p>or</p> <p><u>2.Portfolio skills 3D CAD / CAM</u></p> <p>Design brief, target market, user needs / wants. Product analysis – ACCESSFM. Sketch up / Solid</p>

<p>Year 12 – A level</p> <p>New 2017 Specification.</p>	<p>Topic 1: Materials</p> <p>Topic 2: Performance Characteristics of Materials</p> <p>Topic 3: Processes & Technique</p>	<p>Topic 3 continued; Potential hazards and risk assessment / year 12 mock examination preparation.</p> <p>History of Design Theory (one week to each movement) a-g</p> <p>Design skills: a, approaches to designing b, Modelling c, presentation</p> <p>Design and make assignment.</p> <p>Designing a prototype.</p> <p>Making a final prototype.</p>				
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<p>Year 13 – A level – previous specification</p>	<p>Development of final Design ideas and manufacture / part list. Start making final major project.</p> <p>Unit 3 – industrial and commercial practice.</p> <ol style="list-style-type: none"> 1. Information and communication technology (ICT) 2. Biotechnology 3. Systems and Control 4. Design in Context 5. Sustainability <p><u>Homework</u> Research essays</p>	<p>Cutting and preparation of parts for manufacture.</p> <p>Unit 4 – commercial design / manufacture.</p> <ol style="list-style-type: none"> 1. Selection of Design and make task 2. Client or user group 3. Sustainability and the environmental impact. 4. Industrial applications and commercial working practice <p><u>Homework</u> Research essays</p>	<p>Assembly of parts and completion of project.</p> <p>Final finishing / finishing touches to design and make project.</p> <p><u>Homework</u> Research essays</p>	<p>Preparation for the examination and techniques. Past papers and mock tests.</p> <p><u>Homework</u> Research essays</p>	<p>Preparation for examination. Theory lessons and examination techniques. Past papers and mock tests.</p> <p><u>Examination</u></p>	
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