

## Design and Technology –Overall Scheme of Work – Year 8

Weeks	Session	Type	Tasks: Lesson Objectives	Lesson Details	Expected Student Outcomes - All, Most, Some	Teaching and Learning Strategies	Student Support/Differentiation	Resources and Equipment	Health and Safety	Homework
<b>1&amp;2</b>	<b>1</b>	<b>Theory</b>	<ul style="list-style-type: none"> <li>To analyse a task in detail</li> </ul>	Task Analysis and introduction to project	<p>ALL pupils will note the basic task analysis information.</p> <p>MOST pupils will analyse the task with some guidance and will write their own key points.</p> <p>SOME pupils will analyse the task using GCSE criteria.</p>	<ul style="list-style-type: none"> <li>Teacher led activity.</li> <li>Individual booklet work.</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> </ul>	<ul style="list-style-type: none"> <li>PP</li> </ul>	<ul style="list-style-type: none"> <li>Blazers and bags in locker room</li> <li>Standard workspace rules.</li> </ul>	Mechanical Toy Collage with annotation
	<b>1</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>To learn basic tool use: measuring, marking and cutting frames</li> </ul>	Introduction to Mechanical Toy	<p>ALL pupils will watch all demos and will measure their pieces with help if needed.</p> <p>MOST pupils will measure, mark and begin cutting their pieces with help available.</p> <p>SOME pupils will cut their pieces, file and begin marking for lap joint.</p>	<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work</li> <li>PowerPoint Presentation.</li> <li>Teacher/Technician/TA assistance as required.</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> <li>Recipe and time prompts.</li> <li>Individual recaps of skills demonstrations.</li> </ul>	<ul style="list-style-type: none"> <li>Class set of materials</li> <li>PP</li> <li>Normal workshop access</li> </ul>	<ul style="list-style-type: none"> <li>Blazers and bags in locker room</li> <li>Aprons on.</li> <li>See risk assessments for workshops</li> </ul>	None set
<b>3&amp;4</b>	<b>2</b>	<b>Theory</b>	<ul style="list-style-type: none"> <li>To have an understanding of why primary research is important.</li> </ul>	Research: Surveys and questionnaires	<p>ALL pupils will write a simple questionnaire using the results from HW.</p> <p>MOST pupils will analyse their own questionnaires in detail and will use this to aid research.</p> <p>SOME pupils will analyse their own questionnaires in detail and will use this to aid further research including production processes.</p>	<ul style="list-style-type: none"> <li>Teacher led starter</li> <li>Student activities in groups</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required</li> <li>Make use of whiteboard for visual ideas and examples</li> <li>Key words on screen if needed</li> </ul>	<ul style="list-style-type: none"> <li>Mini whiteboards and pens</li> <li>Access to basic tools and equipment for examples</li> </ul>	<ul style="list-style-type: none"> <li>Main workshop safety</li> </ul>	8W1
	<b>2</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>To have an understanding of lap joints</li> </ul>	Lap joints	<p>ALL pupils will watch demos and begin marking their joints with help.</p> <p>MOST pupils will mark and begin cutting their joints.</p> <p>SOME pupils will cut and file their joints and glue their frame together.</p>	<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work</li> <li>PowerPoint Presentation.</li> <li>Teacher/Technician/TA assistance as required</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> <li>Time prompts.</li> <li>Individual recaps of skills demonstrations.</li> </ul>	<ul style="list-style-type: none"> <li>PP</li> <li>Normal workshop access</li> </ul>	<ul style="list-style-type: none"> <li>Blazers and bags in locker room</li> <li>Aprons on.</li> <li>See risk assessments for workshops</li> <li></li> </ul>	None set

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<b>5&amp;6</b>	<b>3</b>	<b>Theory</b>	<ul style="list-style-type: none"> <li>To analyse an existing product using ACCESS FMM</li> </ul>	Product Analysis	<p>ALL pupils will analyse an existing product using key points.</p> <p>MOST pupils will analyse using ACCESS FMM.</p> <p>SOME pupils will use the GCSE criteria for analysing a product in detail.</p>	<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work</li> <li>PowerPoint Presentation.</li> <li>Teacher/Technician/TA assistance as required.</li> </ul>	<ul style="list-style-type: none"> <li>Use of HLTA is needed</li> <li>SEE above</li> </ul>	<ul style="list-style-type: none"> <li>PP</li> <li>Existing products if available.</li> </ul>	<ul style="list-style-type: none"> <li>Main workshop safety</li> </ul>	8W2
	<b>3</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>Product assembly</li> </ul>			<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work</li> <li>PowerPoint Presentation.</li> <li>Teacher/Technician/TA assistance as required</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> <li>Recipe and time prompts.</li> <li>Individual recaps of skills demonstrations.</li> </ul>	<ul style="list-style-type: none"> <li>PP</li> <li>Normal workshop access</li> </ul>	<ul style="list-style-type: none"> <li>Blazers and bags in locker room</li> <li>Aprons on.</li> <li>See risk assessments for workshops</li> <li></li> </ul>	None set
<b>7&amp;8</b>	<b>4</b>	<b>Theory</b>	<ul style="list-style-type: none"> <li>To write a situation and brief.</li> </ul>	Design situation and brief	<p>ALL pupils will produce a situation and brief.</p> <p>MOST will write their own situation and brief and will give an introduction to the next project stage.</p> <p>SOME will produce a detailed situation and brief with clear links to research.</p>	<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work</li> <li>PowerPoint Presentation.</li> <li>Teacher/Technician/TA assistance as required.</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> <li></li> </ul>	<ul style="list-style-type: none"> <li>PP</li> <li>Normal workshop access</li> </ul>	<ul style="list-style-type: none"> <li>Main workshop safety</li> </ul>	8W3
	<b>4</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li></li> </ul>			<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work</li> <li>PowerPoint Presentation.</li> <li>Teacher/Technician/TA assistance as required</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> <li>Individual recaps of skills demonstrations.</li> </ul>	<ul style="list-style-type: none"> <li>PP</li> <li>Normal workshop access</li> </ul>	<ul style="list-style-type: none"> <li>Blazers and bags in locker room</li> <li>Aprons on.</li> <li>See risk assessments for workshops</li> </ul>	None set

Weeks	Lesson	Type	Tasks: Lesson Objectives	Lesson Details	Expected Student Outcomes - All. Most, Some	Teaching and Learning Strategies	Student Support/Differentiation	Resources and Equipment	Health and Safety	Homework
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<b>9&amp;10</b>	<b>5</b>	<b>Theory</b>	<ul style="list-style-type: none"> <li>To produce a detailed spec based on research</li> </ul>	Specification	<p>ALL pupils will list the things that limit what can be made including user views about product aesthetics and function.</p> <p>MOST pupils will explain why each need is important and will list the manufacturing constraints and cost implications.</p> <p>SOME pupils will refer to how similar products look and work, including several types of need.</p>	<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work</li> <li>PowerPoint Presentation.</li> <li>Teacher/Technician/TA assistance as required.</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> <li>Individual recaps of skills demonstrations.</li> </ul>	<ul style="list-style-type: none"> <li>PP</li> </ul>	<ul style="list-style-type: none"> <li>Main workshop safety</li> </ul>	8W4
	<b>5</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>Focus on accuracy</li> </ul>		<p>ALL pupils will</p> <p>MOST pupils will</p> <p>SOME pupils will</p>	<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work</li> <li>PowerPoint Presentation.</li> <li>Teacher/Technician/TA assistance as required</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> <li>Individual recaps of skills demonstrations.</li> </ul>	<ul style="list-style-type: none"> <li>PP</li> <li>Normal workshop access</li> </ul>	<ul style="list-style-type: none"> <li>Blazers and bags in locker room</li> <li>Aprons on.</li> <li>See risk assessments for workshops</li> </ul>	None set
<b>11&amp;12</b>	<b>6</b>	<b>Theory</b>	<ul style="list-style-type: none"> <li>To have an understanding of perspective drawing.</li> </ul>	Drawing Techniques: Perspective	TBC	<ul style="list-style-type: none"> <li>Teacher led activity.</li> <li>PowerPoint Presentation.</li> <li>Interactive demonstration.</li> <li>Individual booklet work.</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> </ul>	<ul style="list-style-type: none"> <li>Module Booklets.</li> <li>Rulers &amp; pencils.</li> <li>Hygiene PowerPoint.</li> <li>Ingredient sheets</li> <li>Demo ingredients</li> </ul>	<ul style="list-style-type: none"> <li>Blazers and bags in locker room</li> <li>Standard workspace rules.</li> </ul>	8W5
	<b>6</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li><b>Recipe 1</b></li> </ul>	<p>Starter: Reminder of safety and hygiene rules.</p> <p>Draw attention to PPT recipe.</p> <p>Main: Students follow the given recipe.</p> <p>Regular time warnings</p> <p>Plenary: Problems, questions, evaluation points?</p>	<p>ALL pupils will complete the preparation and cooking of the recipe.</p> <p>MOST pupils could make notes for evaluating the session.</p> <p>SOME students could plan a sensory analysis of their product.</p>	<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work</li> <li>PowerPoint Presentation.</li> <li>Teacher/Technician/TA assistance as required.</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> <li>Recipe and time prompts.</li> <li>Individual recaps of skills demonstrations.</li> </ul>	<ul style="list-style-type: none"> <li>Ingredients.</li> <li>Recipe.</li> <li>Aprons</li> <li>Fully stocked, checked and cleaned workstation.</li> <li>Utility Knives.</li> </ul>	<ul style="list-style-type: none"> <li>Blazers and bags in locker room</li> <li>Aprons on.</li> <li>Hair tied back.</li> <li>Hands washed.</li> <li>Caution re use of knives, hob and oven</li> </ul>	None Set
<b>Weeks</b>	<b>Lesson</b>	<b>Type</b>	<b>Tasks: Lesson Objectives</b>	<b>Lesson Details</b>	<b>Expected Student Outcomes - All, Most, Some</b>	<b>Teaching and Learning Strategies</b>	<b>Student Support/Differentiation</b>	<b>Resources and Equipment</b>	<b>Health and Safety</b>	<b>Homework</b>
<b>13&amp;14</b>	<b>7</b>	<b>Theory</b>	<ul style="list-style-type: none"> <li>How to annotate a drawing.</li> </ul>	Annotation	TBC	<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work</li> <li>PowerPoint Presentation.</li> <li>Teacher/Technician/TA assistance as required.</li> </ul>	<ul style="list-style-type: none"> <li>As theory lessons</li> </ul>	<ul style="list-style-type: none"> <li>As theory lessons</li> </ul>	<ul style="list-style-type: none"> <li>Main workshop safety</li> </ul>	8W6

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	7	Practical	<ul style="list-style-type: none"> <li>Recipe 2</li> </ul>	<p>Starter: Reminder of safety and hygiene rules. Draw attention to PPT recipe. Main: Students follow the given recipe. Regular time warnings Plenary: Problems, questions, evaluation points?</p>	<p>ALL pupils will complete the preparation and cooking of the recipe.</p> <p>MOST pupils could make notes for evaluating the session.</p> <p>SOME students could plan a sensory analysis of their product.</p>	<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work</li> <li>PowerPoint Presentation.</li> <li>Teacher/Technician/TA assistance as required.</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> <li>Recipe and time prompts.</li> <li>Individual recaps of skills demonstrations.</li> </ul>	<ul style="list-style-type: none"> <li>Ingredients.</li> <li>Recipe.</li> <li>Aprons</li> <li>Fully stocked, checked and cleaned workstation.</li> <li>Utility Knives.</li> </ul>	<ul style="list-style-type: none"> <li>Blazers and bags in locker room</li> <li>Aprons on.</li> <li>Hair tied back.</li> <li>Hands washed.</li> <li>Caution re use of knives, hob and oven</li> </ul>	None Set
15&16	8	Theory	<ul style="list-style-type: none"> <li>To produce ideas based on a spec</li> </ul>	<p>Generating ideas</p>	<p>ALL pupils will have labelled sketches of three different ideas, listing the constraints and will show how they have used other peoples' ideas.</p> <p>MOST pupils will explain how the ideas used lead to a better product and will explain aesthetic and cost choices.</p> <p>SOME pupils will compare their design to the specification.</p>	<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work</li> <li>PowerPoint Presentation.</li> <li>Teacher/Technician/TA assistance as required.</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> <li>Individual recaps of skills demonstrations.</li> </ul>	<ul style="list-style-type: none"> <li>PP</li> <li>Normal workshop access</li> </ul>	<ul style="list-style-type: none"> <li>Main workshop safety</li> </ul>	8W7
	8	Practical	<ul style="list-style-type: none"> <li>Focus on accuracy</li> </ul>		<p>ALL pupils will</p> <p>MOST pupils will</p> <p>SOME pupils will</p>	<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work</li> <li>PowerPoint Presentation.</li> <li>Teacher/Technician/TA assistance as required</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> <li>Recipe and time prompts.</li> <li>Individual recaps of skills demonstrations.</li> </ul>	<ul style="list-style-type: none"> <li>PP</li> <li>Normal workshop access</li> </ul>	<ul style="list-style-type: none"> <li>Blazers and bags in locker room</li> <li>Aprons on.</li> <li>See risk assessments for workshops</li> <li></li> </ul>	None set
<b>Weeks</b>	<b>Lesson</b>	<b>Type</b>	<b>Tasks: Lesson Objectives</b>	<b>Lesson Details</b>	<b>Expected Student Outcomes - All, Most, Some</b>	<b>Teaching and Learning Strategies</b>	<b>Student Support/Differentiation</b>	<b>Resources and Equipment</b>	<b>Health and Safety</b>	<b>Homework</b>
17&18	9	Theory	<ul style="list-style-type: none"> <li>To produce ideas based on a spec</li> </ul>	<p>Generating ideas</p>	<p>ALL pupils will have labelled sketches of three different ideas, listing the constraints and will show how they have used other peoples' ideas.</p> <p>MOST pupils will explain how the ideas used lead to a better product and will explain aesthetic and cost choices.</p> <p>SOME pupils will compare their design to the specification.</p>	<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work</li> <li>PowerPoint Presentation.</li> <li>Teacher/Technician/TA assistance as required.</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> <li>Individual recaps of skills demonstrations.</li> </ul>	<ul style="list-style-type: none"> <li>PP</li> <li>Normal workshop access</li> </ul>	<ul style="list-style-type: none"> <li>Main workshop safety</li> </ul>	8W8
	9	Practical	<ul style="list-style-type: none"> <li>Product assembly and finishing</li> </ul>		<p>ALL pupils will</p> <p>MOST pupils will</p> <p>SOME pupils will</p>	<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work</li> <li>PowerPoint Presentation.</li> <li>Teacher/Technician/TA assistance as required</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> <li>Individual recaps of skills demonstrations.</li> </ul>	<ul style="list-style-type: none"> <li>PP</li> <li>Normal workshop access</li> </ul>	<ul style="list-style-type: none"> <li>Blazers and bags in locker room</li> <li>Aprons on.</li> <li>See risk assessments for workshops</li> <li></li> </ul>	None set

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<b>19&amp;20</b>	<b>10</b>	<b>Theory</b>	<ul style="list-style-type: none"> <li>To produce a final idea</li> </ul>	Development of ideas	<p>ALL pupils will list the constraints and materials needed and will show how other peoples' ideas were used.</p> <p>MOST pupils will explain how the ideas used lead to a better product and the processes needed to make the product.</p> <p>SOME pupils will compare their designs to the specification, showing how it meets different types of need.</p>	<ul style="list-style-type: none"> <li>Teacher led activity.</li> <li>PowerPoint Presentation.</li> <li>Interactive demonstration.</li> <li>Individual booklet work.</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> </ul>	<ul style="list-style-type: none"> <li>Module Booklets.</li> <li>Rulers &amp; pencils.</li> <li>PP</li> </ul>	<ul style="list-style-type: none"> <li>Blazers and bags in locker room</li> <li>Standard workspace rules.</li> </ul>	8W9
	<b>10</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li><b>Recipe 3</b></li> </ul>	<p>Starter: Reminder of safety and hygiene rules. Draw attention to PPT recipe. Main: Students follow the given recipe. Regular time warnings Plenary: Problems, questions, evaluation points?</p>	<p>ALL pupils will complete the preparation and cooking of the recipe.</p> <p>MOST pupils could make notes for evaluating the session.</p> <p>SOME students could plan a sensory analysis of their product.</p>	<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work</li> <li>PowerPoint Presentation.</li> <li>Teacher/Technician/TA assistance as required.</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> <li>Recipe and time prompts.</li> <li>Individual recaps of skills demonstrations.</li> </ul>	<ul style="list-style-type: none"> <li>Ingredients.</li> <li>Recipe.</li> <li>Aprons</li> <li>Fully stocked, checked and cleaned workstation.</li> <li>Utility Knives.</li> </ul>	<ul style="list-style-type: none"> <li>Blazers and bags in locker room</li> <li>Aprons on.</li> <li>Hair tied back.</li> <li>Hands washed.</li> <li>Caution re use of knives, hob and oven</li> </ul>	None Set
<b>Weeks</b>	<b>Session</b>	<b>Type</b>	<b>Tasks: Lesson Objectives</b>	<b>Lesson Details</b>	<b>Expected Student Outcomes - All, Most, Some</b>	<b>Teaching and Learning Strategies</b>	<b>Student Support/Differentiation</b>	<b>Resources and Equipment</b>	<b>Health and Safety</b>	<b>Homework</b>
<b>21&amp;22</b>	<b>11</b>	<b>Theory</b>	<ul style="list-style-type: none"> <li>TO produce an accurate final idea</li> </ul>	Final idea including a working drawing	<p>ALL pupils will list the constraints and materials needed and will show how other peoples' ideas were used.</p> <p>MOST pupils will explain how the idea used leads to a better product and the processes needed to make the product.</p> <p>SOME pupils will compare the design to the specification, showing how it meets different types of need.</p>	<ul style="list-style-type: none"> <li>Teacher led activity.</li> <li>PowerPoint Presentation.</li> <li>Interactive demonstration.</li> <li>Individual booklet work.</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> </ul>	<ul style="list-style-type: none"> <li>Module Booklets.</li> <li>Rulers &amp; pencils.</li> <li>Hygiene PowerPoint.</li> <li>Ingredient sheets</li> <li>Demo ingredients</li> </ul>	<ul style="list-style-type: none"> <li>Blazers and bags in locker room</li> <li>Standard workspace rules.</li> </ul>	8W10
	<b>11</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>Intro to project</li> </ul>	Bridge building / /Forces  TBC	<p>ALL pupils will</p> <p>MOST pupils will</p> <p>SOME pupils will</p>	<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work</li> <li>PowerPoint Presentation.</li> <li>Teacher/Technician/TA assistance as required.</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> <li>Recipe and time prompts.</li> <li>Individual recaps of skills demonstrations.</li> </ul>	<ul style="list-style-type: none"> <li>Ingredients.</li> <li>Recipe.</li> <li>Aprons</li> <li>Fully stocked, checked and cleaned workstation.</li> <li>Utility Knives.</li> </ul>	<ul style="list-style-type: none"> <li>Blazers and bags in locker room</li> <li>Aprons on.</li> <li>Hair tied back.</li> <li>Hands washed.</li> <li>Caution re use of knives</li> </ul>	None Set

## Design and Technology –Overall Scheme of Work – Year 8

23&24	12	Theory	<ul style="list-style-type: none"> <li>To produce a scale model</li> </ul>	Modelling	<p>ALL pupils will create a model of their final idea to see if it works.</p> <p>MOST pupils will produce a model with some accuracy.</p> <p>SOME pupils will produce an accurate, fully functional model.</p>	<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work</li> <li>PowerPoint Presentation.</li> <li>Teacher/Technician/TA assistance as required.</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> </ul>	<ul style="list-style-type: none"> <li>PP if needed</li> <li>Card</li> <li>Any other modelling materials if available</li> </ul>	<ul style="list-style-type: none"> <li>Main workshop safety</li> </ul>	8W11
	12	Practical	<ul style="list-style-type: none"> <li>Planning</li> </ul>	TBC	<p>ALL pupils will</p> <p>MOST pupils will</p> <p>SOME pupils will</p>	<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work</li> <li>PowerPoint Presentation.</li> <li>Teacher/Technician/TA assistance as required</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> <li>Recipe and time prompts.</li> <li>Individual recaps of skills demonstrations.</li> </ul>	<ul style="list-style-type: none"> <li>PP</li> <li>Normal workshop access</li> </ul>	<ul style="list-style-type: none"> <li>Blazers and bags in locker room</li> <li>Aprons on.</li> <li>See risk assessments for workshops</li> </ul>	None set
25&26	13	Theory	<ul style="list-style-type: none"> <li>To write a production plan</li> </ul>	Production planning	<p>ALL pupils will produce a step-by-step plan with the correct tools.</p> <p>MOST pupils will produce a detailed plan including tools and safety notes.</p> <p>SOME pupils will list alternative tools or processes that could be used if needed.</p>	<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work</li> <li>PowerPoint Presentation.</li> <li>Teacher/Technician/TA assistance as required.</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> </ul>	<ul style="list-style-type: none"> <li>PP</li> <li>Normal workshop access</li> </ul>	<ul style="list-style-type: none"> <li>Main workshop safety</li> </ul>	TBC (8FT1?)
	13	Practical	<ul style="list-style-type: none"> <li><b>Recipe 4</b></li> </ul>	<p>Starter: Reminder of safety and hygiene rules. Draw attention to PPT recipe.</p> <p>Main: Students follow the given recipe. Regular time warnings</p> <p>Plenary: Problems, questions, evaluation points?</p>	<p>ALL pupils will complete the preparation and cooking of the recipe.</p> <p>MOST pupils could make notes for evaluating the session.</p> <p>SOME students could plan a sensory analysis of their product.</p>	<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work</li> <li>PowerPoint Presentation.</li> <li>Teacher/Technician/TA assistance as required.</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> <li>Recipe and time prompts.</li> <li>Individual recaps of skills demonstrations.</li> </ul>	<ul style="list-style-type: none"> <li>Ingredients.</li> <li>Recipe.</li> <li>Aprons</li> <li>Fully stocked, checked and cleaned workstation.</li> <li>Utility Knives.</li> </ul>	<ul style="list-style-type: none"> <li>Blazers and bags in locker room</li> <li>Aprons on.</li> <li>Hair tied back.</li> <li>Hands washed.</li> <li>Caution re use of knives, hob and oven</li> </ul>	None Set
27&28	14	Theory	<ul style="list-style-type: none"> <li>To have an understanding of basic materials.</li> </ul>	Materials basics	<p>ALL pupils will write key terms with some explanation.</p> <p>MOST pupils will give details and examples for each material.</p> <p>SOME pupils will discuss materials in detail with examples and detailed annotation.</p>	<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work</li> <li>PowerPoint Presentation.</li> <li>Teacher/Technician/TA assistance as required.</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> </ul>	<ul style="list-style-type: none"> <li>PP</li> <li>Normal workshop access</li> </ul>	<ul style="list-style-type: none"> <li>Main workshop safety</li> </ul>	TBC (8FT2)

## Design and Technology –Overall Scheme of Work – Year 8

Weeks	Session	Type	Tasks: Lesson Objectives	Lesson Details	Expected Student Outcomes - All, Most, Some	Teaching and Learning Strategies	Student Support/Differentiation	Resources and Equipment	Health and Safety	Homework
	14	Practical	<ul style="list-style-type: none"> <li>TBC</li> </ul>		<p>ALL pupils will</p> <p>MOST pupils will</p> <p>SOME pupils will</p>	<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work</li> <li>PowerPoint Presentation.</li> <li>Teacher/Technician/TA assistance as required.</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> <li>Recipe and time prompts.</li> <li>Individual recaps of skills demonstrations.</li> </ul>	<ul style="list-style-type: none"> <li>PP</li> <li>Normal workshop access</li> </ul>	<ul style="list-style-type: none"> <li>Blazers and bags in locker room</li> <li>Aprons on.</li> <li>See risk assessments for workshops</li> <li></li> </ul>	None set
29&30	15	Theory	<ul style="list-style-type: none"> <li>To have an understanding of basic materials.</li> </ul>	Materials basics	<p>ALL pupils will write key terms with some explanation.</p> <p>MOST pupils will give details and examples for each material.</p> <p>SOME pupils will discuss materials in detail with examples and detailed annotation.</p>	<ul style="list-style-type: none"> <li>Teacher led activity.</li> <li>PowerPoint Presentation.</li> <li>Interactive demonstration.</li> <li>Individual booklet work.</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> </ul>	<ul style="list-style-type: none"> <li>PP</li> </ul>	<ul style="list-style-type: none"> <li>Blazers and bags in locker room</li> <li>Standard workspace rules.</li> </ul>	TBC (8FT3)
	15	Practical	<ul style="list-style-type: none"> <li>TBC</li> </ul>		<p>ALL pupils will</p> <p>MOST pupils will</p> <p>SOME pupils will</p>	<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work</li> <li>PowerPoint Presentation.</li> <li>Teacher/Technician/TA assistance as required.</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> <li>Recipe and time prompts.</li> <li>Individual recaps of skills demonstrations.</li> </ul>	<ul style="list-style-type: none"> <li>PP</li> <li>Normal workshop access</li> </ul>	<ul style="list-style-type: none"> <li>Blazers and bags in locker room</li> <li>Aprons on.</li> <li>See risk assessments for workshops</li> </ul>	None Set
31&32	16	Theory	<ul style="list-style-type: none"> <li>To have an understanding of tools and equipment used this year.</li> </ul>	Tools and equipment	<p>ALL pupils will list all tools used this year with some explanation.</p> <p>MOST pupils will give detailed explanation on each tool.</p> <p>SOME pupils will explain each tool including QA/QC.</p>	<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work</li> <li>PowerPoint Presentation.</li> <li>Teacher/Technician/TA assistance as required.</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> <li></li> </ul>	<ul style="list-style-type: none"> <li>PP</li> <li>Normal workshop access</li> </ul>	<ul style="list-style-type: none"> <li>Main workshop safety</li> </ul>	TBC (8FT4)
	16	Practical	<ul style="list-style-type: none"> <li>Recipe 6</li> </ul>	<p>Starter: Reminder of safety and hygiene rules.</p> <p>Draw attention to PPT recipe.</p> <p>Main: Students follow the given recipe.</p> <p>Regular time warnings</p> <p>Plenary: Problems, questions, evaluation points?</p>	<p>ALL pupils will complete the preparation and cooking of the recipe.</p> <p>MOST pupils could make notes for evaluating the session.</p> <p>SOME students could plan a sensory analysis of their product.</p>	<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work</li> <li>PowerPoint Presentation.</li> <li>Teacher/Technician/TA assistance as required.</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> <li>Recipe and time prompts.</li> <li>Individual recaps of skills demonstrations.</li> </ul>	<ul style="list-style-type: none"> <li>Ingredients.</li> <li>Recipe.</li> <li>Aprons</li> <li>Fully stocked, checked and cleaned workstation.</li> <li>Utility Knives.</li> </ul>	<ul style="list-style-type: none"> <li>Blazers and bags in locker room</li> <li>Aprons on.</li> <li>Hair tied back.</li> <li>Hands washed.</li> <li>Caution re use of knives, hob and oven</li> </ul>	None Set

## Design and Technology –Overall Scheme of Work – Year 8

<b>33&amp;34</b>	<b>17</b>	<b>Theory</b>	<ul style="list-style-type: none"> <li>TO have an understanding of how materials are joined together</li> </ul>	Joining methods	<p>ALL pupils will write their own notes and will link this to the project.</p> <p>MOST pupils will write detailed notes with diagrams linking to examples.</p> <p>SOME pupils will explain each process in detail using diagrams and annotation.</p>	<ul style="list-style-type: none"> <li>As above</li> </ul>	<ul style="list-style-type: none"> <li>As above</li> </ul>	<ul style="list-style-type: none"> <li>PP</li> <li>Examples of joined in wood, metal and plastic</li> </ul>	<ul style="list-style-type: none"> <li>Main workshop safety</li> </ul>	TBC (8FT5)
	<b>17</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>TBC</li> </ul>		<p>ALL pupils will</p> <p>MOST pupils will</p> <p>SOME pupils will</p>	<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work</li> <li>PowerPoint Presentation.</li> <li>Teacher/Technician/TA assistance as required</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> <li>Recipe and time prompts.</li> <li>Individual recaps of skills demonstrations.</li> </ul>	<ul style="list-style-type: none"> <li>PP</li> <li>Normal workshop access</li> <li>Soldering irons, solder</li> </ul>	<ul style="list-style-type: none"> <li>Blazers and bags in locker room</li> <li>Aprons on.</li> <li>See risk assessments for workshops</li> <li>Use of soldering irons</li> </ul>	None set
<b>35&amp;36</b>	<b>18</b>	<b>Theory</b>	<ul style="list-style-type: none"> <li>To evaluate a final product using a specification</li> </ul>	Testing and evaluation	<p>ALL pupils will list the product features that are working well and what could be improved.</p> <p>MOST pupils will explain how the product was tested and how this compares to how it will be used.</p> <p>SOME pupils will test the product in use and list what could be improved. They will explain how they have used research and what other research may have helped.</p>	<ul style="list-style-type: none"> <li>Student led individual and group activity</li> <li>Assistance as required.</li> </ul>	<ul style="list-style-type: none"> <li>Use of HLTA as required.</li> </ul>	<ul style="list-style-type: none"> <li>PP</li> <li>Normal workshop access</li> </ul> <p>Pupils to have their own PP3 batteries for testing.</p>	<ul style="list-style-type: none"> <li>Main workshop safety</li> </ul>	TBC (8FT6)
	<b>18</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>Testing to destruction</li> </ul>	Bridges / Structures will be tested to destruction.	<p>ALL pupils will</p> <p>MOST pupils will</p> <p>SOME pupils will</p>	<ul style="list-style-type: none"> <li>Student led activity.</li> <li>Paired work</li> <li>Individual work.</li> <li>Teacher/Technician/TA assistance as required</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if required.</li> <li>Visual and written versions of lesson materials.</li> <li>Regular questioning and recapping.</li> <li>Recipe and time prompts.</li> <li>Individual recaps of skills demonstrations.</li> </ul>	<ul style="list-style-type: none"> <li>PP</li> <li>Normal workshop access</li> <li>Vehicle templates</li> </ul>	<ul style="list-style-type: none"> <li>Blazers and bags in locker room</li> <li>Aprons on.</li> <li>See risk assessments for workshops</li> </ul>	None set

Points to note:

Recipes will change seasonally and will be differentiated accordingly.

Bridge Building / Structures project may be subject to change.