

## Design and Technology –Overall Scheme of Work – Year 7

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
1&2	1	Theory	<ul style="list-style-type: none"> <li>Complete the baseline test for Technology to aid setting of classes</li> </ul>	Baseline testing	<p>ALL pupils will attempt the baseline test.</p> <p>MOST pupils will complete the questions for levels 3 -5</p> <p>SOME pupils will attempt all questions from level 3 -7</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>Baseline tests</li> <li>Pencils.</li> </ul>	<ul style="list-style-type: none"> <li>Blazers and bags in locker room</li> <li>Standard workspace rules.</li> </ul>	N/A
	1	Practical	<ul style="list-style-type: none"> <li>To learn basic tool use: measuring, marking and cutting frames</li> </ul>	Introduction to Maze Game	<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
3&4	2	Theory	<ul style="list-style-type: none"> <li>To have an understanding of basic workshop safety and expectations for using tools and equipment</li> </ul>	Workshop safety / Introduction	<p>ALL pupils will get involved in class discussions and activities and write 4 rules minimum.</p> <p>MOST pupils will write 6-8 safety rules with explanation.</p> <p>SOME pupils will write 10 detailed safety rules and will draw out 4 of these as posters.</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>	Safety poster
	2	Practical	<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>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
5&6	3	Theory	<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 class discussions.</p> <p>MOST pupils will add to their questionnaire and begin finding results.</p> <p>SOME pupils will analyse their own questionnaires in detail and will use this to aid research.</p>	<ul style="list-style-type: none"> <li>Teacher led introduction leading to student led group and individual work.</li> </ul>	<ul style="list-style-type: none"> <li>Use of TA's if needed.</li> <li>AfL resources available.</li> </ul> <p>Link to Inclusion and numeracy</p>	<ul style="list-style-type: none"> <li>PP</li> <li>Access to whiteboard</li> </ul>	<ul style="list-style-type: none"> <li>Main workshop safety</li> </ul>	7W1

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	<b>3</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>Product assembly</li> </ul>	Join the base and triangle inserts to the frame	<p>ALL pupils will glue their frame and being preparing their base.</p> <p>MOST pupils will glue their frame and base at the same time.</p> <p>SOME pupils will glue their frame, base and inserts and begin working on their design.</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>7&amp;8</b>	<b>4</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>	7W2
	<b>4</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>To design and prepare the maze inserts</li> </ul>	Designing of the maze, drilling traps	<p>ALL pupils will design their maze on graph paper.</p> <p>MOST pupils will accurately design their maze and transfer onto MDF.</p> <p>SOME pupils will design and transfer their design and will begin drilling trap holes.</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

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
<b>9&amp;10</b>	<b>5</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 simple design brief.</p> <p>MOST will produce a situation and brief.</p> <p>SOME will write their own situation and brief and will give an introduction to the next project stage.</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>	7W3
	<b>5</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>Focus on accuracy</li> </ul>	Wall preparation and assembly	<p>ALL pupils will complete their design.</p> <p>MOST pupils will complete their trap drilling and will begin wall assembly.</p> <p>SOME pupils will produce an accurate internal design.</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>11&amp;12</b>	<b>6</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 must write a list of needs the product must satisfy, including various types of need.</p> <p>MOST pupils will list the things that limit what can be made including user views about product aesthetics and function.</p> <p>SOME pupils will explain why each need is important and will list the manufacturing constraints and cost implications.</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>	7W4
	<b>6</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li><b>Fruit Salad</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>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>TBC</li> </ul>	Drawing Techniques	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>	7W5
	<b>7</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li><b>Fruit Flapjack</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>15&amp;16</b>	<b>8</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>	7W6

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	8	Practical	<ul style="list-style-type: none"> <li>Focus on accuracy</li> </ul>	Final assembly and adjustments	<p>ALL pupils will add final adjustments to their maze with assistance.</p> <p>MOST pupils will finish their maze with some accuracy.</p> <p>SOME pupils will begin adding their ball and lid.</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
17&18	9	Theory	<ul style="list-style-type: none"> <li>To produce ideas based on a spec</li> </ul>	Generating ideas	<p>ALL pupils will produce sketches of three ideas with labels.</p> <p>MOST pupils will have labelled sketches of three different ideas, listing the constraints and will show how they have used other peoples' ideas.</p> <p>SOME pupils will explain how the ideas used lead to a better product and will explain aesthetic and cost choices.</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>	7W7
	9	Practical	<ul style="list-style-type: none"> <li>Product assembly and finishing</li> </ul>	<p>Adding the ball and the lid</p> <p>Finishing techniques if time allows</p>	<p>ALL pupils will complete their maze.</p> <p>MOST pupils will add their ball and lid with some help.</p> <p>SOME pupils will complete their maze and being finishing techniques.</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
19&20	10	Theory	<ul style="list-style-type: none"> <li>See above</li> </ul>	Generating ideas	As above	<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>	7W8
	10	Practical	<ul style="list-style-type: none"> <li><b>Pizza Toast</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
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<b>21&amp;22</b>	<b>11</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 create a final drawing with labels.</p> <p>MOST pupils will list the constraints and materials needed and will show how other peoples' ideas were used.</p> <p>SOME pupils will explain how the ideas used lead to a better product and the processes needed to make the product.</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>	7W9
	<b>11</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>Intro to project</li> </ul>	Air Powered Vehicle Measuring, marking out, cutting frame	<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 glue frames.</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
<b>23&amp;24</b>	<b>12</b>	<b>Theory</b>	<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>	<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>	7W10
	<b>12</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>Product assembly</li> </ul>	Drilling and frame assembly. Axles and wheels	<p>ALL pupils will drill their frame.</p> <p>MOST pupils will glue their frame with some accuracy.</p> <p>SOME pupils will drill their frame and attach their axles.</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
<b>25&amp;26</b>	<b>13</b>	<b>Theory</b>	<ul style="list-style-type: none"> <li>To write a production plan</li> </ul>	Production planning	<p>ALL pupils will make a parts list and will write the order for making, including tool choice.</p> <p>MOST pupils will produce a step-by-step plan with the correct tools.</p> <p>SOME pupils will produce a detailed plan including tools and safety notes.</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>	7W11

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	13	Practical	<ul style="list-style-type: none"> <li>Tomato Soup</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
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.</p> <p>MOST pupils will write key terms with some explanation.</p> <p>SOME pupils will give details and examples for each material.</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
	14	Practical	<ul style="list-style-type: none"> <li>Accuracy and precision.</li> </ul>	Motor bases	<p>ALL pupils will complete their frame and being marking out.</p> <p>MOST pupils will drill their bases.</p> <p>SOME pupils will drill and glue their bases and being soldering.</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
<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>
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.</p> <p>MOST pupils will write key terms with some explanation.</p> <p>SOME pupils will give details and examples for each material.</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
	15	Practical	<ul style="list-style-type: none"> <li>To have an understanding of the soldering process, focusing on the key safety points</li> </ul>	Electronics: Soldering	<p>ALL pupils will use the soldering irons to attach their components with assistance.</p> <p>MOST pupils will attach and solder their own components in the correct places.</p> <p>SOME pupils will solder their components and test their vehicles to see if they are fully functional.</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>Use of soldering irons</li> </ul>	None Set

## Design and Technology –Overall Scheme of Work – Year 7

<b>31&amp;32</b>	<b>16</b>	<b>Theory</b>	<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 produce a simple tools table.</p> <p>MOST pupils will list all tools used this year with some explanation.</p> <p>SOME pupils will give detailed explanation on each tool.</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
	<b>16</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>Muffins</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>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 note down the key points from discussions and PP.</p> <p>MOST pupils will write their own notes and will link this to the project.</p> <p>SOME pupils will write detailed notes with diagrams linking to examples.</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
	<b>17</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>To ensure that all components are soldered and tested accurately</li> </ul>	Soldering components	<p>ALL pupils will use the soldering irons to attach their components with assistance.</p> <p>MOST pupils will attach and solder their own components in the correct places.</p> <p>SOME pupils will solder their components and test their vehicles to see if they are fully functional.</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 describe what they have designed and made, explaining any differences.</p> <p>MOST pupils will list the product features that are working well and what could be improved.</p> <p>SOME pupils will explain how the product was tested and how this compares to how it will be used.</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

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	<b>18</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>To complete the body design of the vehicle and to work as part of a team for the race</li> </ul>	<p>Body design Vehicle race</p>	<p>ALL pupils will compete in the vehicle race.</p> <p>MOST pupils will have a body design on their vehicle and will compete in the race in their teams.</p> <p>SOME pupils will have a creative body design and will compete in the race as part of a team.</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
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