

Long Term Curriculum Plan – ADT – Design Technology 2024-25

Year 7 - 1 rotation Year 8 – 2 rotations						
<b>Year 7 DT</b>	<b>Rotation (1/3<sup>rd</sup> of year)</b> Design skills and presentation skills Cardboard pizza cutter Coaster and clock <i>Extension: 2D Design skills and ruler project</i>					
<b>Year 8 DT</b>	<b>Rotation 1:</b> Picture holder Styrofoam modelling (mouse)			<b>Rotation 2:</b> Architectural model		
	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
<b>Year 9 DT</b>	Design and presentation skills  Tea light holder: - manufacturing	Tea light holder: - manufacturing - accompanying sheets	Onshape train  Alessi egg cup holder: - research - inspiration - specification	Alessi egg cup holder: - designs - experimentation sheets - 3D printing	Torch disassembly  Plant holder: - timber frame - experimentation sheets	Plant holder: - experimentation sheets - manufacturing
<b>Year 10 DT</b>	Lamp: - designs - development and modelling	Lamp: - manufacturing	Promotional item(s): - research - design brief - specification	Promotional item(s): - designs - manufacturing	Focussed Practical Tasks (FPTs): - aluminium spinner - laser cut box - timber project TBC	NEA: - investigation - research - design brief and specification
<b>Year 11 DT</b>	NEA: - design ideas - review of design ideas - development of design ideas	NEA: - development of design ideas - review of chosen idea - manufacturing	NEA: - manufacturing - testing and evaluation	NEA: - completion of whole NEA	Theory every lesson, working through a revision itinerary	Formal examinations

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Sixth Form roadmap	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
<b>Year 12 DT: Product Design</b>	Induction design skills: <ul style="list-style-type: none"> <li>- isometric and perspective drawing</li> <li>- induction assessment</li> </ul> Chopping board: <ul style="list-style-type: none"> <li>- designs</li> <li>- manufacturing</li> </ul>	Chopping board: <ul style="list-style-type: none"> <li>- manufacturing</li> </ul> Infinity mirror: <ul style="list-style-type: none"> <li>- designs</li> <li>- modelling and development</li> <li>- manufacturing + portfolio</li> </ul>	Infinity mirror: <ul style="list-style-type: none"> <li>- designs</li> <li>- modelling and development</li> <li>- manufacturing + portfolio</li> </ul> Scale model chair: <ul style="list-style-type: none"> <li>- task analysis</li> <li>- designs</li> <li>- modelling</li> </ul>	Scale model chair: <ul style="list-style-type: none"> <li>- development and modelling</li> <li>- completion of presentation board</li> </ul>	Focused Practical Tasks (FPTs): <ul style="list-style-type: none"> <li>- paper weight</li> <li>- lathe project TBC</li> </ul>	NEA: <ul style="list-style-type: none"> <li>- grid 1 – exploration into a problem</li> <li>- grid 2 – investigation and research</li> <li>- grid 3 – design brief and specification</li> </ul>
<b>Year 13 DT: Product Design</b>	NEA: <ul style="list-style-type: none"> <li>- grid 4 - design ideas</li> <li>- grid 5 - developing design ideas</li> </ul>	NEA <ul style="list-style-type: none"> <li>- grid 5 - developing design ideas</li> <li>- grid 6 - final design solution</li> <li>- grid 7&amp;8 – manufacturing specifications</li> </ul>	NEA <ul style="list-style-type: none"> <li>- grids - 9&amp;10 - manufacturing the prototype</li> </ul>	NEA <ul style="list-style-type: none"> <li>- grids 9&amp;10 - manufacturing the prototype</li> <li>- grid 11 - testing and evaluation</li> </ul>	Theory every lesson, working through a revision itinerary	Formal examinations