







Subject: D T Maze Project Yr 7

<p>Week Beginning</p>	<p>1</p> 	<p>2</p> 	<p>3</p> 	<p>4</p> 	<p>5</p> 	<p>6</p> 
<p>Subject Topic</p>	<p>Research into historical maze designs and type of maze games</p> <p>Understanding what the design process is</p> <p>ACCESS FM</p>	<p>2D Techsoft design introduction and difference between CAD and CAM with industrial applications</p>	<p>Introduction cardboard engineering and the effect of tolerance on a product both in making and packaging</p> <p>Material analysis. Developing an understanding differing plastic and identifying them</p>	<p>Technical control of machines: Pillar Drill H&amp;S (PPE, clamping, drilling speed/process)</p>	<p>Finishing: Understanding how to use differing grit sandpapers to achieve a professional finish to acrylic</p>	<p>Cardboard Engineering and packaging design</p> <p>Understanding packaging design solutions for maze project. Relevant to end user and assembly of finished design solution</p>
<p>Key Learning</p>		<p>Print screen-paste. Use of CAD to create maze template to be CNC Milled</p>	<p>2D maze and packaging</p> <p>PVC / Acrylic. Brittle</p> <p>2D Design, Router</p>	<p>Files, W&amp;D, polisher, screwdriver, pilot / clearance hole</p>	<p>Edge finishing acrylic. Application of graphics (card)</p>	<p>Screws (PVC) Adhesive (Card)</p>

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<p>Linked Assessment</p>	<p>You are able to analyse a product using the ACCESS FM framework</p> <p>You can follow a brief to develop ideas</p> <p>Investigate and analyse new and emerging technologies</p> <p>Investigate &amp; analyse products considering life cycle analysis and 'cradle to grave'.</p>	<p>Demonstrate the ability to present work to a high standard</p> <p>Use CAD software, such as 2D design or Fusion 360, to model basic forms</p>	<p>Use CAD software, such as 2D design or Fusion 360, to model basic forms</p> <p>You understand different materials based on their properties, such as malleability</p> <p>You have demonstrated use of CAD/CAM to manufacture</p>	<p>Demonstrate the ability to present work to a high standard</p> <p>You are able to select appropriately from specialist tools i.e. Pillar drill</p>	<p>You understand different materials based on their properties, such as malleability</p> <p>You have demonstrated applying a range of finishing techniques</p>	<p>You have demonstrated use of different joining techniques</p>
<p>Resources</p>	<p>Link to SharePoint</p>					

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