

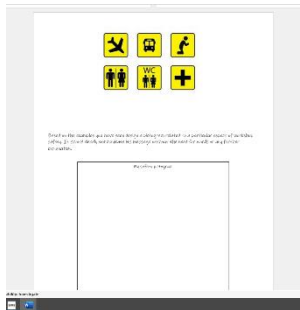
# Holy Family Catholic School – Faculty of Mathematics

Subject – Design Technology

Autumn Half-Term 1

Year 8

Learning Intention	Vocab	Concept	Retrieval	Success Criteria	Red Zone
<b>Week 1</b> Presentation techniques in Technology	2D, 3D, Isometric grid, diagonal, vertical	Realistic presentation drawing	Flat and realistic 3Dimensional grids	<ul style="list-style-type: none"> <li>I can construct an Isometric drawing.</li> <li>I can describe form using shading.</li> <li>I can construct more complex shapes using an isometric grid.</li> </ul>	Construct an Isometric drawing with appropriate shading
<b>Week 2</b> Material properties - Metals	Ferrous, non ferrous , alloys, Oxidisation, environmental impact	Material properties	Ferrous, non ferrous, alloys, Oxidisation, environmental impact	<ul style="list-style-type: none"> <li>I can recognise and define a ferrous metal and a non ferrous metal.</li> <li>I can describe how alloys are produced.</li> <li>I can discuss the properties of ferrous and non ferrous metals.</li> </ul>	Complete the worksheet regarding ferrous metal, non ferrous and alloys.
<b>Week 3</b> Understanding design briefs and producing initial Ideas	Design brief, sketch, colour, annotation	Producing ideas	Sketching, Presenting ideas	<ul style="list-style-type: none"> <li>I understand how to interpret a design brief.</li> <li>I can generate initial ideas.</li> </ul>	Complete the worksheet to produce 2 initial ideas and one 3d idea.
<b>Week 4</b> Understanding the role of modelling and CAD/CAM in DT	CAD, CAM, Modelling, Automation	Computer controlled modelling	Computers	<ul style="list-style-type: none"> <li>I can describe why we use modelling in DT.</li> <li>I can explain the uses of CAD/ CAM in technology.</li> </ul>	Produce an appropriate CAD drawing using the program Techsoft 2DDesign.

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<b>Week 5</b> Staying safe in the workshop	Health and Safety, PPE, Injury, workshop rules.	Health and Safety in the workshop	Safety, machinery, PPE, behaviour	<ul style="list-style-type: none"> <li>I can explain the importance of health and safety in the workshop.</li> <li>I can describe the safest way to use tools and machinery.</li> <li>I am aware of the effect of my behaviour on everyone's health and safety in the workshop.</li> </ul>	 <p>Design a pictogram related to health and safety in the workshop and then explain the concept behind the design</p>
<b>Week 6</b> Applying practical skills - marking and measuring	Rulers, tri - squares, mm, cm, waste	Marking and measuring in the workshop	Rulers, cm and mm, dimensions, accuracy	<ul style="list-style-type: none"> <li>I can apply health and safety rules in a practical lesson.</li> <li>I can select and use rulers and tri-squares.</li> <li>I can indicate the waste prior to cutting wood.</li> </ul>	<p>Proceed with your practical work and demonstrate that you know:</p> <ul style="list-style-type: none"> <li>how to use rulers – using mm</li> <li>how to use Tri squares</li> <li>how to indicate “the waste”</li> </ul>

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<b>Week 7</b> How to apply practical skills – Cutting tools and techniques, casting	Cutting, shaping, saws, drills and files, moulds, casting	Using cutting tools to produce prototypes for casting	Tools, safety, techniques	<ul style="list-style-type: none"> <li>I can apply health and safety rules in a practical lesson.</li> <li>I can select and use appropriate cutting tools.</li> <li>I can perform a simple casting procedure.</li> </ul>	Proceed with your practical work and demonstrate <ul style="list-style-type: none"> <li>the correct way to use cutting and shaping tools such as saws, drills, and files.</li> <li>the correct way to heat, mould and clean pewter</li> </ul>
<b>Week 8</b> Applying practical skills – Cutting tools and techniques (continued)	Cutting, shaping, saws, drills and files, moulds, casting	Using cutting tools to produce prototypes for casting	Tools, safety, techniques	<ul style="list-style-type: none"> <li>I can apply health and safety rules in a practical lesson.</li> <li>I can select and use appropriate cutting tools.</li> <li>I am aware of common errors when using cutting tools.</li> </ul>	Proceed with your practical work and demonstrate <ul style="list-style-type: none"> <li>the correct way to use cutting and shaping tools such as saws, drills, and files.</li> <li>how to begin a cut, sawing in a straight line and where to place your hands.</li> <li>how to avoid common mistakes such as using the tool incorrectly or using the wrong tool for the job.</li> </ul>