

Holy Family Catholic School – Faculty of Mathematics

Subject – Design Technology

Autumn Half-Term 1

Year 7

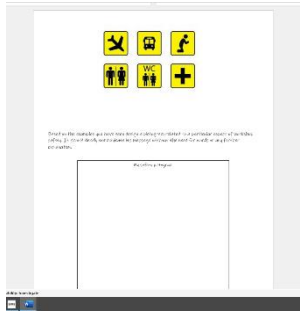
Learning Intention	Vocab	Concept	Retrieval	Success Criteria	Red Zone
Week 1 Presentation techniques in Technology	2D, 3D, Shading	Realistic drawing	Flat and realistic Transitions Basic shapes	<ul style="list-style-type: none"> I can recognise the difference between 2D and 3D shapes. I can use a pencil to produce a range of monochrome shades. I can use shading techniques to describe 3D forms. 	Complete the worksheet on shading using Dark, Medium and Light tones
Week 2 Material properties - Woods	Hardwoods, Softwoods Manufactured boards	Material properties	Woods Materials properties	<ul style="list-style-type: none"> I can recognise and define a hardwood and a softwood. I can describe how manufactured boards are produced. I can discuss the properties of hardwood and softwoods. 	Complete the worksheet regarding hardwood, softwood and manufactured boards.
Week 3 Understanding design briefs and producing initial Ideas	Design brief, sketch, colour, annotation	Producing ideas	Sketching, Presenting ideas	<ul style="list-style-type: none"> I understand how to interpret a design brief. I can generate initial ideas. 	Complete the worksheet to produce 2 initial ideas and one 3d idea.

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Week 4 Understanding the role of modelling and CAD/CAM in DT	CAD, CAM, Modelling, Automation	Computer controlled modelling	Computers	<ul style="list-style-type: none"> I can describe why we use modelling in DT. I can explain the uses of CAD/ CAM in technology. 	Produce a CAD drawing using the program Techsoft 2DDesign
Week 5 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"> I can explain the importance of health and safety in the workshop. I can describe the safest way to use tools and machinery. I am aware of the effect of my behaviour on everyone's health and safety in the workshop. 	 Design a pictogram related to health and safety in the workshop
Week 6 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"> I can apply health and safety rules in a practical lesson. I can select and use rulers and tri-squares. I can indicate the waste prior to cutting wood. 	Proceed with your practical work and demonstrate that you know: <ul style="list-style-type: none"> how to use rulers – using mm how to use Tri squares how to indicate “the waste”

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