

Unit Number	1	2	3	4	5	
Title	Isometric/ Oblique Drawing	2D CAD Drawing AutoCAD	Sketching	Planometric Drawing	3D CAD Inventor	1 and 2pt Perspective Drawing
Time	6 Weeks	10 weeks	4 weeks	4 weeks	10 weeks	4 weeks
CfE Experiences and Outcomes	I have gained confidence and dexterity in the use of materials, tools, equipment, software or control technology and can apply specialist skills to make quality products. TCH 3-13a Having explored graphical techniques and their application, I can select, organise and represent information and ideas graphically. TCH 3-15a	Having explored graphical techniques and their application, I can select, organise and represent information and ideas graphically. TCH 3-15a I have gained confidence and dexterity in the use of materials, tools, equipment, software or control technology and can apply specialist skills to make quality products. TCH 3-13a	Having explored graphical techniques and their application, I can select, organise and represent information and ideas graphically. TCH 3-15a I have gained confidence and dexterity in the use of materials, tools, equipment, software or control technology and can apply specialist skills to make quality products. TCH 3-13a	Having explored graphical techniques and their application, I can select, organise and represent information and ideas graphically. TCH 3-15a I have gained confidence and dexterity in the use of materials, tools, equipment, software or control technology and can apply specialist skills to make quality products. TCH 3-13a	Having explored graphical techniques and their application, I can select, organise and represent information and ideas graphically. TCH 3-15a I have gained confidence and dexterity in the use of materials, tools, equipment, software or control technology and can apply specialist skills to make quality products. TCH 3-13a	Having explored graphical techniques and their application, I can select, organise and represent information and ideas graphically. TCH 3-15a I have gained confidence and dexterity in the use of materials, tools, equipment, software or control technology and can apply specialist skills to make quality products. TCH 3-13a
Cross curricular links						
Resources	Drawing Board, Tee square, workbook, 45° set square, 30/60° set square, 3H pencil, eraser A3 and A4 paper	AutoCAD software. A3 printer	3H pencil, HB pencils, Colour pencils, eraser and A4 paper	Drawing Board, Tee square, workbook, 45° set square, 30/60° set square, 3H pencil, eraser A3 and A4 paper	AutoDesk Inventor 11 CAD software. Colour printer	Drawing Board, Tee square, workbook, 45° set square, 30/60° set square, 3H pencil, eraser A3 and A4 paper
Learning Activities	Skill building, presentation skills	Skill building, presentation skills	Skill building, presentation skills	Skill building, presentation skills	Skill building, presentation skills	Skill building, presentation skills
Evidence/Assessment / Monitoring	Examples of current class work displayed on wall End of unit assessment drawing. Pupils profile Pupil self evaluation sheets End of year evaluation sheet	Examples of current class work displayed on wall End of unit assessment drawing. Pupils profile Pupil self evaluation sheets End of year evaluation sheet	Examples of current class work displayed on wall End of unit assessment drawing. Pupils profile Pupil self evaluation sheets End of year evaluation sheet	Examples of current class work displayed on wall End of unit assessment drawing. Pupils profile Pupil self evaluation sheets End of year evaluation sheet	Examples of current class work displayed on wall End of unit assessment drawing. Pupils profile Pupil self evaluation sheets End of year evaluation sheet	Examples of current class work displayed on wall End of unit assessment drawing. Pupils profile Pupil self evaluation sheets End of year evaluation sheet

Unit Number	1	2	3	4	5	
Title	Sketching Unit	CAD Inventor Unit	Practical Skill Builder	Design Desk Tidy	Design DVD Rack	Group Design Task
Time	4 weeks	6 weeks	8 weeks	6 weeks	7 weeks	7 periods
CfE Experiences and Outcomes	I have gained confidence and dexterity in the use of materials, tools, equipment, software or control technology and can apply specialist skills to make quality products. TCH 3-13a Having explored graphical techniques and their application, I can select, organise and represent information and ideas graphically. TCH 3-15a	Having explored graphical techniques and their application, I can select, organise and represent information and ideas graphically. TCH 3-15a I have gained confidence and dexterity in the use of materials, tools, equipment, software or control technology and can apply specialist skills to make quality products. TCH 3-13a	Having explored graphical techniques and their application, I can select, organise and represent information and ideas graphically. TCH 3-15a I can practise and apply a range of preparation techniques and processes to manufacture a variety of items in wood, metal, plastic or other material, showing imagination and creativity, and recognising the need to conserve resources. TCH 3-13b I have gained confidence and dexterity in the use of materials, tools, equipment, software or control technology and can apply specialist skills to make quality products. TCH 3-13a	Having explored graphical techniques and their application, I can select, organise and represent information and ideas graphically. TCH 3-15a I can practise and apply a range of preparation techniques and processes to manufacture a variety of items in wood, metal, plastic or other material, showing imagination and creativity, and recognising the need to conserve resources. TCH 3-13b By using problem-solving strategies and showing creativity in a design challenge, I can plan, develop, organise and evaluate the production of items which meet needs at home or in the world of work. TCH 3-14a I gain inspiration from natural forms, the built environment or imagination to develop a creative idea which could be realised using computer	Having explored graphical techniques and their application, I can select, organise and represent information and ideas graphically. TCH 3-15a I can practise and apply a range of preparation techniques and processes to manufacture a variety of items in wood, metal, plastic or other material, showing imagination and creativity, and recognising the need to conserve resources. TCH 3-13b By using problem-solving strategies and showing creativity in a design challenge, I can plan, develop, organise and evaluate the production of items which meet needs at home or in the world of work. TCH 3-14a I gain inspiration from natural forms, the built environment or imagination to develop a creative idea which could be realised using computer	Having explored graphical techniques and their application, I can select, organise and represent information and ideas graphically. TCH 3-15a I can practise and apply a range of preparation techniques and processes to manufacture a variety of items in wood, metal, plastic or other material, showing imagination and creativity, and recognising the need to conserve resources. TCH 3-13b By using problem-solving strategies and showing creativity in a design challenge, I can plan, develop, organise and evaluate the production of items which meet needs at home or in the world of work. TCH 3-14a I gain inspiration from natural forms, the built environment or imagination to develop a creative idea which could be realised using computer

				<p>aided manufacture. TCH 3-15b</p> <p>I have gained confidence and dexterity in the use of materials, tools, equipment, software or control technology and can apply specialist skills to make quality products.</p> <p style="text-align: right;">TCH 3-13a</p>	<p>aided manufacture. TCH 3-15b</p> <p>I have gained confidence and dexterity in the use of materials, tools, equipment, software or control technology and can apply specialist skills to make quality products.</p> <p style="text-align: right;">TCH 3-13a</p>	<p>aided manufacture. TCH 3-15b</p> <p>I have gained confidence and dexterity in the use of materials, tools, equipment, software or control technology and can apply specialist skills to make quality products.</p> <p style="text-align: right;">TCH 3-13a</p>
Cross curricular links						
Resources	3H pencil, HB pencils, Colour pencils, eraser and A4 paper	AutoDesk Inventor 11 CAD software. Colour printer	Workshop equipment, red pine	Design notes, design folio, AutoDesk Inventor 11 CAD software. Colour printer Workshop equipment, Red pine	Design notes, design folio, AutoDesk Inventor 11 CAD software. Colour printer Workshop equipment, Jelutong	Design notes, design folio, AutoDesk Inventor 11 CAD software. CNC Router, Colour printer, Workshop equipment, plastic and pine.
Learning Activities	Skill building, presentation skills	Skill building	Skill building	Skill building	Skill building	Skill building
Evidence/Assessment / Monitoring	Examples of current class work displayed on wall End of unit assessment drawing. Pupils profile Pupil self evaluation sheets End of year evaluation sheet	Examples of current class work displayed on wall End of unit assessment drawing. Pupils profile Pupil self evaluation sheets End of year evaluation sheet	Finished product	Finished product Design Folio Pupils profile Pupil self evaluation sheets End of year evaluation sheet End of unit assessment	Finished product Design Folio Pupils profile Pupil self evaluation sheets End of year evaluation sheet End of unit assessment	Finished product Design Folio Pupils profile Pupil self evaluation sheets End of year evaluation sheet End of unit assessment