

DT & Engineering VCERT

Half Term 1

	Year 10 VCert DT	Year 11 VCert DT	Year 10 VCert Engineering	Year 11 VCert Engineering
Topic	Drawing Techniques. Controller - Part 1 Investigating & Designing.	Students undertake their Synoptic Project.	Orthographic Drawing and an Introduction to Model Engineering (practical metalwork project/fabrication - stealth fighter plane).	Students undertake their Synoptic Project.
Assessment	Key tasks which assess pupils' ability to design make and evaluate, in addition to their technical understanding of the topics covered.	The Synoptic Project is the method of assessment for the practical side of the course and makes up 60% of the student's final mark.	Key tasks which assess pupils' ability to draw by hand and using CAD make and evaluate, in addition to their technical understanding of the topics covered.	The Synoptic Project is the method of assessment for the practical side of the course and makes up 60% of the student's final mark.

Half Term 2

	Year 10 VCert DT	Year 11 VCert DT	Year 10 VCert Engineering	Year 11 VCert Engineering
Topic	Controller - Part 2 Modelling, People, Culture & Society, Smart materials and Prototype development.	Students undertake their Synoptic Project.	Introduction to Model Engineering (practical metalwork project/fabrication - stealth fighter plane).	Students undertake their Synoptic Project.
Assessment	Key tasks which assess pupils' ability to design make and evaluate, in addition to their technical understanding of the topics covered.	The Synoptic Project is the method of assessment for the practical side of the course and makes up 60% of the student's final mark.	Key tasks which assess pupils' ability to design make and evaluate, in addition to their technical understanding of the topics covered.	The Synoptic Project is the method of assessment for the practical side of the course and makes up 60% of the student's final mark.

Half Term 3

	Year 10 VCert DT	Year 11 VCert DT	Year 10 VCert Engineering	Year 11 VCert Engineering
Topic	USB - Material categories and properties.	Students undertake their Synoptic Project.	TechSoft Design (CAD) and Sectional Drawing.	Students undertake their Synoptic Project.
Assessment	Key tasks which assess pupils' ability to design make and evaluate, in addition to their technical understanding of the topics covered.	The Synoptic Project is the method of assessment for the practical side of the course and makes up 60% of the student's final mark.	Key tasks which assess pupils' ability to design make and evaluate, in addition to their technical understanding of the topics covered.	The Synoptic Project is the method of assessment for the practical side of the course and makes up 60% of the student's final mark.

Half Term 4

	Year 10 VCert DT	Year 11 VCert DT	Year 10 VCert Engineering	Year 11 VCert Engineering
Topic	Multi-Storage Unit: To introduce students to 'Product Design'.	Students undertake their Synoptic Project.	Isometric Drawing by hand and Grand Prix racing car - practical metalwork project (fabrication and turning).	Students undertake their Synoptic Project.
Assessment	Key tasks which assess pupils' ability to design make and evaluate, in addition to their technical understanding of the topics covered.	The Synoptic Project is the method of assessment for the practical side of the course and makes up 60% of the student's final mark.	Key tasks which assess pupils' ability to design make and evaluate, in addition to their technical understanding of the topics covered.	The Synoptic Project is the method of assessment for the practical side of the course and makes up 60% of the student's final mark.

Half Term 5

	Year 10 VCert DT	Year 11 VCert DT	Year 10 VCert Engineering	Year 11 VCert Engineering
Topic	To introduce students to a range of materials, tools, equipment	Revision on all topics - exam prep.	Grand Prix racing car - practical metalwork project (fabrication	Revision on all topics - exam prep.

	and machinery used in KS4 Design Technology.		and turning).	
Assessment	Key tasks which assess pupils' ability to design make and evaluate, in addition to their technical understanding of the topics covered.	Practice exam questions will be used to test and refine knowledge, exam technique and exam preparation.	Key tasks which assess pupils' ability to design make and evaluate, in addition to their technical understanding of the topics covered.	Practice exam questions will be used to test and refine knowledge, exam technique and exam preparation.

Half Term 6

	Year 10 VCert DT	Year 11 VCert DT	Year 10 VCert Engineering	Year 11 VCert Engineering
Topic	To introduce students to the Synoptic Project format.		Grand Prix racing car - practical metalwork project (fabrication and turning) and Sketch Up (CAD).	
Assessment	Key tasks which assess pupils' ability to design make and evaluate, in addition to their technical understanding of the topics covered.		Key tasks which assess pupils' ability to design make and evaluate, in addition to their technical understanding of the topics covered.	

Exam Specification

	Year 10/11 VCert DT	Year 10/11 VCert Engineering
Specification	NCFE Level 1/2 Technical Award in Creative Design and Production NCFE	NCFE Level 1/2 Technical Award in Engineering (1) NCFE