



Design Technology Department Curriculum and Assessment Map

N.B. Unit taught on rotation

Year 7	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Unit - Timbers	Introduction to woods and Manufactured boards	Scales of production	Product lifecycle – written task	Measurements and tolerances	Workshop safety Design brief and user profiles	Specifications Design Ideas.	Design ideas Practical working	Practical working Product evaluation
Fundamental Knowledge	Natural and engineered wood Advantages and disadvantages of manufactured boards. Working properties and performance Uses – structural element	Definitions of scales of production. Types of Production scales Factors affecting scales of production	Understand developments in design and technology, its impact on individuals, society and the environment, and the responsibilities of designers, engineers, and technologists	Marking and measuring Working drawings Common units of measurements	Health and safety – students are introduced to the workshop and taught about how to correctly use the tools and equipment. Users need - Work with the person next to them so that they have a live client.	Understanding the purpose of the specification. Standards and regulations Visual communication skills – how to generate and communicate design ideas Verbal and written Annotation	Practical skills – how to select and safely use specialist tools and techniques in woodwork	Evaluate – test, design and refine design ideas and products against specification
Learning Checkpoint Tasks	LC 1 – To be able to recall timber types and category	LC 1 –Product sales of production advantages / disadvantages	Extended Writing	LC1 – Reading measurements. Measurement	LC 2 – To be able to describe properties of timbers	LC 2 – To identify features of a safe working environment		RDME Assessment

Common Assessment Task	How to classify materials e.g., hard words, soft woods. Identify the physical properties of materials	The positive and negative impact that products can have in the world.	Lifecycle analysis, written text with opportunity for extended writing exam questions.	Make use of specialist equipment to measure materials	Use research including the study of different cultures, to identify and understand user need	Develop detailed design specifications to guide their thinking	Identify and solve design / making problems as work develops	Evaluate products against their original specification and identify ways of improving them Actively involve others in the testing of their products
Interleaved Knowledge	Material selection – working properties / functional attributes / cost / aesthetics		Research and development -		Identifying problems / need. Understanding client / user preferences. Ergonomic standards.		Working properties of materials Safe working practices	