Year	Term 1	Term 2	Term 3
9	**Unit title: Timbers** **Areas of focus: Wood puzzle** **Woodpecker door knocker** **Students will be learning:** • Hardwoods and softwoods • Timber physical properties • Availability and stock sizes • Defects in timber • Marking out • Cutting to size • Finishing techniques	**Unit title: Computer Aided Manufacture** **Area of focus: Laser cut tealight holder** **Students will be learning:** • Manufactured boards • Production systems: Computer Aided Design and Computer Aided Manufacture • Global production • Sustainability and the environment • Computer Aided Design – 2D vector drawing • Computer Aided Manufacture – laser cutter • The influence of contemporary designers.	**Unit Title: Designing and modelling** **Area of focus: Coin Sorter** **Students will be learning:** • The iterative design process • Cooperative designing • Sketching and presentation techniques • Working drawings • Modelling techniques • Materials and their working properties
10	**Unit title: Iterative design** **Area of focus: "From a single piece of timber"** **Mini NEA: Lighting** **Students will be learning:** • Hardwoods and softwoods • Timber physical properties • Availability and stock sizes • Defects in timber • Materials and their working properties	**Areas of focus: Mini NEA – continued** **Crumble digital programming task** **Students will be learning:** • Mechanical components and devices • SMART materials • Electronic systems	**Unit title: Non-examination assessment** **Area of focus: GCSE Coursework** **Students will cover:** • Analysing the contexts • Researching the contexts • Writing the brief and specification
11	**Unit title: Non-examination assessment** **Area of focus: GCSE Coursework** **Students will cover:** • Initial ideas • Development of ideas • Designing through modelling • Planning for manufacture	**Unit title: Non-examination assessment** **Area of focus: GCSE Coursework** **Students will cover:** • Manufacture of prototype • Testing and evaluation	**Areas of focus: GCSE Examination revision and preparation.**
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