Year 8 Curriculum Sequencing Grid	
Subject:	**Design Technology**
Unit *(Tablet in 39-week plan)*	Acrylic clock Memphis Design Style 10 double lessons
Key Substantive knowledge *(required for Y11)* *What… How… Why…*	• To be able to research products that already exist within a designated stimulus area (Memphis design) • To be able to look at products that have been identified and analyse them to state improvements that could be made to meet a required need • To understand the properties of a range of plastic products and using those properties identify the uses for them • Skills required for independent learning, safe practice focusing on higher level practical skills. • Introduction to working from a brief.
Key Disciplinary Knowledge *(required for Y11)* *What… How…. Why….*	• To be able to use hand tools (coping saw) to be able to cut an additional material to wood (acrylic)while still maintaining a degree of accuracy with 5mm • To be able to use a hand file and wet and dry paper to remove saw blade burn marks from the edge of work ensuring a high-quality finish • To dispose of waste products correctly allowing for them to be recycled and re-used • To safely use bonding materials such as adhesive and hot glue to join multiple layers of plastic into one product. • To be able to plan and cut simple shapes that can be combined to make a more complex design e.g. using multiple triangles (simple shape) to make a star (complex shape) • To assemble a set of clock works following assembly instructions to complete a functional final piece

Key Technical Vocabulary *To be modelled and deliberately practiced in context.*	**Re-cap Y7** Coping Saw Hand Files **New for Y8** Acrylic plastic Wet and dry paper Buffer/Polisher Product analysis- beginning of requirements for GCSE NEA work Thermosetting plastic Thermoset plastic HIPs- High impact polystyrene Polyester resin LDPE - Low density Polyethylene **PETE - Polyethylene terephthalate** **Polymer uses**
Opportunities for reading	Health and safety instructions around the room and in student booklets
Developing Cultural Capital *Essential knowledge and skills of educated citizens.*	Practical work skills , correct choice of tool and material for the job, working with others and responsible/sustainable consumers
Authentic Connections – Cross Curricular Links	**Science and Maths- Accuracy of measuring, marking, and recording**
Key Assessment	Short answer questions on content (AO1) Practical assessment based on: • Cutting • Filing/ Sanding • Finishing/ Functionality