|  |
| --- |
| **Year 8 Design and Technology Curriculum Map 2021** |
|  | **Autumn** | **Spring** | **Summer** |
| **Unit Length** | **20 lessons over the year** |
| **Assessment Objectives** | **DT****AO1** - **Core Technical Principles** Materials and their working properties**AO2 - Specialist Technical Principles** Selection of materials or components, specialist techniques and processes, surface treatments and finishes.**AO3 – Design & Making Principles** investigating the work of others design strategies tools and equipment |
| **Description of the topic and key learning outcomes.** | Students will be working with the material plastics to design and create products for their own interest**AO1** - **Core Technical Principles*** Materials and their working properties
 | **AO2 - Specialist Technical Principles**Students will learn about plastics and the origin and sources and how it obtains its stock form. They will learn to use a range of tools, equipment and machinery. They will learn to measure how to convert measurements for life long learning skills.  | **A03 – Design and Making Principles**Students will use the work of others to influence their ideas. Students will learn to use CAD/CAM and components to produce an end product. |
| **Milestone assessments** | **Autumn 1**Baseline Assessment**Autumn 2**Audit – plastic | **Spring 1**Jewellery practical**Spring 2**Audit - investigation | **Summer 1**Jewellery box practical**Summer 2**Final Practical grade |
| **CEIAG / RRSA** | **Link to careers routes**:  product designers, carpenters**Topics to be delivered by employers**: employers from building merchants**Link to personal skills**: problem solving**RRSA:** 3, 13, 14, 28, 29, 30, 42 |
| **Wider Curriculum Links** | **Maths** – area and volume**Science** – classification of properties and range of materials - plastics. |
| **Literacy programme / Wider Reading** | Identifying key words that are associated with research such a product analysis, anthropometric, ergonomics, design criteria, etc.Encourage students to books on design such as The design of everyday things by Don NormanDesign and Technology online revision material such as [www.technologystudent.com](http://www.technologystudent.com) |
| **Independent Learning Tasks** | Knowledge Organiser revision | Knowledge Organiser revision | Knowledge Organiser revision |