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| **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 Norman  Design 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 |