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| **Year 7 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 wood to design and create products for children.**AO1: Core Technical Principles**Students with learn about different types and categories of wood. They will learn the properties of each type of wood and how that is used for application | **AO2 - Specialist Technical Principles**Students will learn about wood 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 work with a selection of materials, tools and components to produce an end product. |
| **Milestone assessments** | **Autumn 1**Baseline Assessment**Autumn 2**Audit – wood | **Spring 1**Block bot practical**Spring 2**Audit - sustainability | **Summer 1**Can light 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** – conversions mm,cm,m**Science** – classification of properties and range of materials.Literacy links in evaluation writing. |
| **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 |