Curriculum Summary Document

Year 7 – Design Technology

Module/Unit of Learning	Taught During	What will students learn?	How does this help to build a broad and strong foundation?	Links to other Subjects
Picture Frames	Autumn Term	Students will first learn about design briefs, understanding what they are and how professional designers use them to guide the design process. They also consider the properties of different woods, including pine and MDF, to make informed selections for their project. Students will learn how to use a variety of tools including coping saws, tenon saws, and bench hooks, and how to cut and shape their materials. Finally, they will learn about product assembly and the selection of appropriate adhesives.	Students are quickly introduced to the importance of Design Technology, seeing the value of this subject early on. Students are also introduced to a range of different skills using and using a variety of tools and equipment in the workshop.	Art – design brief
Dumpy Doorstops	Spring Term	Students will first learn about different types of fabric and their properties, such as shapes/colours. Students learn about the importance of planning and how to use the most effective method of construction. They then start to explore a range of stitches available using a sewing machine. Students learn the benefit of evaluation and how it forms part of the iteration design process.	Understanding the purpose and use of Design Technology helps to develop students' value of the subject, seeing the impact that successful design and manufacturing can have on the world around us.	
Key Rings		Students are introduced to different type of polymers. They learn about the characteristics of these polymers and how they react under different stresses. Students learn how to create a high-end finish with acrylic by using some simple fabrication techniques. Following this, students learn how polymers can be bent/moulded into different shapes using a strip heater.	Understanding how everyone day household items are formed and manufactured. Students learn why plastic is such a commonly used material in manufacturing engineered products.	