

Year 7: Curriculum Intent

During year 7 the focus is on knowing designers and their influence on how their ideas have shaped the world and be able to develop a range of ideas. As a result, the students will develop a creative flare and then create products using a range of hand tools and some machinery with a keen focus on health and safety.

Year 7 Essential Knowledge Summary

<u>Schemata 1: Product design</u>	<u>Schemata 2: Electronics</u>	<u>Schemata 3: Food technology</u>
<p><u>Composite Knowledge:</u> Pupils will gain an understanding of health and safety and how to conduct themselves in a safe working environment. Pupils will develop knowledge of tools equipment and machinery to construct a product.</p> <p><u>Component Knowledge:</u> <u>Foundational Knowledge:</u> <i>Declarative Knowledge:</i> Be able to mark, measure and shape a product to a desired outcome. Work safely and complete work to the good quality outcome. Be able to read and identify key words and identify key facts of a designer.</p> <p><u>Procedural Knowledge:</u> Reflect on reading to explain their opinion of a product, be able to describe key characteristics. Be able to work independently and safely to create a product that is safe to use. Can identify the three groups of woods and provide an example of use for each.</p> <p><u>Upper Hierarchical Knowledge:</u> Can create their own opinion on the artist work. Able to work independently in the workshop and share their knowledge with others verbally. Can improve or make suggestions of how the product can be modified. Be able to solve issues and evaluate their own idea with modifications or improvements.</p>	<p><u>Composite Knowledge:</u> Pupils will learn about the input, process and output of electronics components. They will also have an in-depth introduction to health and safety in an electronics room.</p> <p><u>Component Knowledge:</u> <u>Foundational Knowledge:</u> <i>Declarative Knowledge:</i> Understand how different components have different functions in a circuit. Be able to articulate what a PCB is and its' purpose. Understand the composition of a PCB. Work safely and securely to solder some components with some accuracy.</p> <p><u>Procedural Knowledge:</u> Be able to use historical information of inventors and understand how they shaped the future of electronics, be able to identify key facts. Know how to safely solder and create a product with minimal errors. Understand input, process and output as well as feedback.</p> <p><u>Upper Hierarchical Knowledge:</u> Be able to form their own opinions and articulate this within their literacy task. Know the name and function of components and link to their use in the circuit. Be able to work independently and transfer their skills to others. Explain and link how input, process output works and provide a detailed example.</p>	<p><u>Composite Knowledge:</u> Pupils will learn about health and safety in a Food room and the hazards involved. They will learn about nutrients and basic cutting skills. Students will have knowledge of different textures and flavours</p> <p><u>Component Knowledge:</u> <u>Foundational Knowledge:</u> <i>Declarative Knowledge:</i> Be able to follow instructions and remain safe when working with sharp objects. Be able to understand the principle of weighing and measuring. Be able to understand different textured by carrying out a sensory analysis. Can demonstrate safe cutting skills using the bridge and the claw. Can apply knowledge in written format and verbally.</p> <p><u>Procedural Knowledge:</u> Be able to use the bridge and claw when cutting and be able to construct a dish with relative confidence. Work safely and have a good awareness of safety and hygiene. Be able to articulate flavours and textures and link to combinations to complement.</p> <p><u>Upper Hierarchical Knowledge:</u> Be able to explain what vitamins and minerals are, analyse foods and describe their sensory value. Explain and describe verbally what knowledge they have acquired from their practical and theory lessons. Be able to transfer skills to others and share knowledge as well as work confidently and with precision.</p>
<p>Can understand the purpose of a design criteria and create a specification addressing the success of the outcome. Can understand how designers have influenced and shaped the world through analysis and creating a range of ideas. Can use equipment, tools and machinery with a high regard to health and safety when developing a product. Can understand hazards and know how to prevent them in a workshop or Food room.</p>		