

Subject: Design & Technology

Curriculum Intent Document:

	Year 7	Year 8	Year 9
Carousel 1	<p><u>Novelty light project</u> -Exploring electronic components and basic circuits. -What is the design process? -What are LEDs? -What are the benefits of using LEDs? -How can we work with electronic components to build a circuit? -What is Computer Aided Design and manufacture?</p>	<p><u>Electric race car project</u> -Exploring motion and mechanisms. -How do we work through the design process? -Exploring the factors which effect vehicle performance. -What are the types of motion? -How are mechanisms used to create motion? -How can we recycle plastics to manufacture new products?</p>	<p><u>Pewter casting project</u> -Exploring metals and metal processes. -How can we use the design process to develop a product? -Where do metals come from? -What are the metal categories? -What are the properties of metals? -What is the casting process? -Cutting, shaping and finishing metals.</p>
Carousel 2	<p><u>Chocolate mould project</u> -Exploring polymers and polymer processes. -Where do plastics come from? -How can plastics be shaped? -Exploring the vacuum forming process. -How do we mould and shape chocolate? -How are products packaged and promoted?</p>	<p><u>USB LED light project</u> -Exploring timber-based materials and processes. -Where do timbers come from? -What are the types of timber? -What is the environmental impact of timber production? -How do we construct a circuit? -What is the function of electronic components?</p>	<p><u>Design styles clock project</u> -Exploring the history of design and design styles. -What are design styles? -What are the features of each style? -How can we develop a product based on a chosen style? -What are the plastic processes?</p>

Carousel 3

Food and Nutrition

- What is a balanced diet?
- An introduction to the Eatwell guide.
- Getting to know the food room.
- Preparing products from the food groups including apple crumble, fruit smoothie, pizza, fajitas and cupcakes.

Food and Nutrition

- What is the function of food?
- What are the benefits of each food group?
- Developing cooking skills as you prepare Banana Bread, Cheesecake, pasta bake, burgers and jam tarts.

Food and Nutrition

- What are the nutritional values of food?
- What are the health benefits of a balanced diet?
- What is the role of nutrients in our bodies?
- Preparing nutritional meals including pizza bombs, chicken Stir-Fry, Swiss roll, sweet potato curry and spaghetti carbonara.