

***Design Technology Half Term 1***

***YEAR 8 OVERVIEW Pupils will learn:***

***Food and Nutrition***

Through this project, pupils will:

**Why this matters:**

| **Lesson 1** | **Lesson 2** | **Lesson 3** | **Lesson 4** | **Lesson 5** | **Lesson 6** | **Lesson 7** | **Lesson 7** | **Lesson 8** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Personal and Food Safety | Food Related Illnesses | Fajita Practical | The Eatwell Guide Analysis | Nutrient Recap: Energy Balance | Vege Curry Practical | Dietary Needs of Groups | | Vegan Scone |

***Design Technology:***

Through this project, pupils will:

* Learn about different types and classifications of timber.
* Understand the importance of health and safety in the workshop.
* Use a variety of hand tools and machines safely.
* Design and make a wooden animal of their choice.

Why this matters:  
 This project builds confidence in working with materials, teaches pupils how to use tools safely, and introduces them to the design–make–evaluate process.

| **Lesson 1** | **Lesson 2** | **Lesson 3** | **Lesson 4** | **Lesson 5** | **Lesson 6** | **Lesson 7** | **Lesson 7** | **Lesson 8** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Intro to project. Health & Safety | Theory of Timbers | Formative assessment  Purpose & Securing templates to material | Learn Skill: Drilling | Learn Skill: Fret Saw | Learn Skill: Hand tools | Formative assessment  Learn Skill: Assembly/Adhesives | Evaluation | Summative unit assessment |

***Design Technology: Battery Tester***

Through this project, pupils will:

* Learn what smart materials are, how they are used in everyday products, and their commercial applications.
* Understand the role of CAD (Computer-Aided Design) in designing and making products.
* Gain a basic knowledge of electrical components and how to construct a simple circuit.
* Design, make, and test a battery tester.

**Why this matters:** This project develops problem-solving, design skills, and technical knowledge, giving pupils a foundation for future electronic and digital design work.

| **Lesson 1** | **Lesson 2** | **Lesson 3** | **Lesson 4** | **Lesson 5** | **Lesson 6** | **Lesson 7** | **Lesson 7** | **Lesson 8** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Intro to Project. Smart materials. | Formative assessment  Colour Theory | Learn Skill: Designing and Drawing styles | Learn Skill:  CAD | | Making the circuit | Learn Skill:  Manufacture | | Summative unit assessment |