

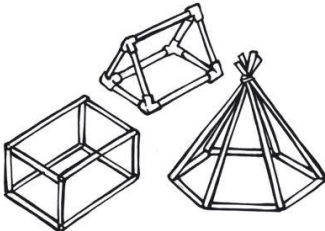
**Warthill CE Primary School**  
**Design and Technology Long Term Plan**

Our school's schemes of work have been designed as a spiral curriculum with the following key principles in mind:

**Cyclical:** Pupils return to the key areas again and again during their time in primary school.

**Increasing depth:** Each time a key area is revisited, it is covered with greater complexity.

**Prior knowledge:** Upon returning to each key area, prior knowledge is utilised so pupils can build on previous foundations.

|                                                                                                                                                                                    |                                                                                                                                           |                                                                                                                                   |                                                                                                                                            |                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Cooking and Nutrition</b>                                                                  | <br><b>Mechanisms</b>                                    | <br><b>Structures</b>                           | <br><b>Textiles</b>                                     | <br><b>Electrical systems<br/>(KS2 only)</b>                    |
| Children will develop their understanding of nutrition, seasonality and food preparation, applying a range of cooking techniques to prepare and evaluate healthy, balanced dishes. | Children will explore mechanical systems, including gears, pulleys, cams, levers and linkages and use them to create functional products. | Children will learn to design and make stable, functional structures, strengthen and stabilise, stiffen and reinforce structures. | Children will explore the properties of textiles and use a range of tools and joining techniques to design and make high-quality products. | Children will explore electrical systems and circuits, using components such as switches, bulbs, buzzers and motors to create functional products. |

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|                               | Autumn                               | Spring                           | Summer                                                 |
|-------------------------------|--------------------------------------|----------------------------------|--------------------------------------------------------|
| Infants Year A<br>2025 - 2026 | Delightful decorations<br>(Textiles) | Homes<br>(Structures)            | Moving pictures –<br>traditional tales<br>(Mechanisms) |
| Infants Year B<br>2026 - 2027 | Lovely lunchboxes<br>(Structures)    | Wheels and axles<br>(Mechanisms) | Sensational salads<br>(Cooking and nutrition)          |

|                               | Autumn                                | Spring                                              | Summer                                       |
|-------------------------------|---------------------------------------|-----------------------------------------------------|----------------------------------------------|
| Juniors Year A<br>2023 - 2024 | Marvellous Structures<br>(Structures) | Chocolate Product<br>(Structures)                   | Global Kitchen<br>(Cooking and nutrition)    |
| Juniors Year B<br>2024 - 2025 | Design an Altar Cloth<br>(Textiles)   | Mechanical Posters<br>(Mechanisms)                  | Edible Garden<br>(Cooking and Nutrition)     |
| Juniors Year C<br>2025 -2026  | Viking pouches<br>(Textiles)          | Battery Operated Project<br>(Electrical Systems)    | Seasonal Garden<br>(Cooking and Nutrition)   |
| Juniors Year D<br>2026 - 2027 | Kite design<br>(Structures)           | The Great Bread Bake Off<br>(Cooking and nutrition) | Fiver Challenge<br>(Structures / mechanisms) |