



## West Denton Primary School

### Design Technology Overview

#### Long Term Plan – 2 Year Cycle

##### YEAR A

|      | Autumn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Spring                                            | Summer                                              |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------|
| EYFS | Children are encouraged to explore, design, build and evaluate their own creations using a range of materials, tools and construction resources. DT activities help develop fine motor skills, hand-eye coordination and problem-solving as children plan, test and adapt their ideas. They also promote communication and teamwork by encouraging children to discuss their designs, explain their thinking and work collaboratively with others. Through designing and making, children build confidence, independence, creativity and resilience while learning about how everyday objects work and developing an understanding of the world around them. |                                                   |                                                     |
| KS1  | <b>Mechanisms</b><br>To create a pull along toy. With wheels and axels.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Structures</b><br>To build a stable structure. | <b>Mechanisms</b><br>To create a fairground wheel.  |
| LKS2 | <b>Electrical Systems</b><br>To explore electrical products.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Structures</b><br>To construct a pavilion.     | <b>Digital World</b><br>To create a personal timer. |
| UKS2 | <b>Electrical Systems</b><br>To create a steady hand game.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Structures</b><br>To construct a bridge.       | <b>Digital World</b><br>To navigate the world.      |



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### Design Technology Overview

#### YEAR B

|      | Autumn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Spring                                               | Summer                                   |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------|
| EYFS | Children are encouraged to explore, design, build and evaluate their own creations using a range of materials, tools and construction resources. DT activities help develop fine motor skills, hand-eye coordination and problem-solving as children plan, test and adapt their ideas. They also promote communication and teamwork by encouraging children to discuss their designs, explain their thinking and work collaboratively with others. Through designing and making, children build confidence, independence, creativity and resilience while learning about how everyday objects work and developing an understanding of the world around them. |                                                      |                                          |
| KS1  | <b>Mechanisms</b><br>To make a matching slider game.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Cooking and Nutrition</b><br>To make smoothies.   | <b>Textiles</b><br>To create pouches.    |
| LKS2 | <b>Mechanical Systems</b><br>To create pneumatic toy.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Cooking and Nutrition</b><br>To eat seasonally.   | <b>Textiles</b><br>To create fastenings. |
| UKS2 | <b>Mechanical Systems</b><br>To build a gear and pulley system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Cooking and Nutrition</b><br>To develop a recipe. | <b>Textiles</b><br>To create a bag.      |