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|  **Disciplinary Knowledge –**  Disciplinary knowledge will be explored and developed throughout the D&T curriculum as pupils move through the school. They can be used across all aspects of a subject to grow an awareness of how designers construct their knowledge. |
| **Responsibility:** (working safely, how design can solve problems, choosing the right materials, responsibilities to customers to ensure quality / reliable products, healthy eating, quality ingredients) | **WTS** | **EXS** | **GDS** |
| **Similarity and difference:** (making comparisons, noting differences and drawing conclusions) |  | Rest of class |  |
| **Cause and consequence:** (identifying how things work, how an action can cause change/movement |  | Rest of class |  |
| **Significance**: (significant designers and designs, real world examples of effective and successful products) |  | Rest of class |  |
| **Written and oral expression:** (Using terminology, evaluating, creating accurate designs, labelling and annotating, explaining processes, presenting) |  | Rest of class |  |



**DT Assessment and Tracking**

**Year 4 Overview 24/25**

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| **Textiles – Fastenings** |
| Identify the features, benefits and disadvantages of a range of fastening types. | **WTS** | **EXS** | **GDS** |
| Write design criteria and design a sleeve that satisfies the criteria. |  | Rest of class |  |
| Make a template for their book sleeve. |  | Rest of class |  |
| Assemble their case using any stitch they are comfortable with. |  | Rest of class |  |

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| **Cooking and Nutrition – Adapt a receipe** |
| Describe features of biscuits using taste, texture and appearance. | **WTS** | **EXS** | **GDS** |
| Follow a recipe with support. |  | Rest of class |  |
| Use a budget to plan a recipe. |  | Rest of class |  |
| Adapt a recipe using additional ingredients. |  | Rest of class |  |

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| **Mechanical systems and structures – Making a car** |
| Describe key design improvements in the history of the automobile. Provide specific feedback and adjust my design to incorporate customer feedback. | **WTS** | **EXS** | **GDS** |
| Measure and compare the distance travelled by different mechanical cars.  |  | Rest of class |  |
| Choose and use appropriate tools and materials to make mechanical cars. |  | Rest of class |  |
| Draw exploded diagrams and annotated sketches of my different mechanical cars.  |  | Rest of class |  |
| Use a problem statement to identify the design criteria. |  | Rest of class |  |
| Conduct market research into existing products. |  | Rest of class |  |
| Provide specific feedback and adjust my design to incorporate customer feedback. |  | Rest of class |  |
|  **Structures – Pavilions**  |  | Rest of class |  |
| Produce a range of free-standing frame structures of different shapes and sizes.Select appropriate materials and techniques to add cladding to their pavilion. |  | Rest of class |  |
| Design a pavilion that is strong, stable and aesthetically pleasing. |  | Rest of class |  |
| Select appropriate materials and construction techniques to create a stable, free-standing frame structure. |  | Rest of class |  |
| Select appropriate materials and techniques to add cladding to their pavilion. |  | Rest of class |  |

