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| **Intent for TVED Design Technology** |
| We aim to equip children with technical knowledge to develop life skills for the world beyond school. To make and create products through independent and creative thinking, individually and as part of a team. They will also be able to evaluate effectively utilising acquired vocabulary. |
| **Outcomes** |
| **By the end of KS1 most children will be able to:** | **By the end of KS2 most children will be able to:** |
| * use a range of materials to design and make simple products;
* select materials, tools and techniques and explain their choices;
* understand simple mechanisms and structures;
* measure, assemble, join and combine materials in a variety of ways using basic tools safely;
* investigate and evaluate simple products, commenting on the main features.
 | * use knowledge and understanding of a range of materials, components and techniques to design and make quality products;
* evaluate work as it develops and, if necessary, suggest alternatives;
* produce designs and plans which list the stages involved in making a product, and list tools and materials used;
* accurately measure, mark, cut, join and combine a variety of materials, working safely and recognising hazards to themselves and others;
* understand the use of electrical and mechanical systems and more complex structures;
* evaluate what is or is not working well in a product.
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|  | **Autumn** | **Spring** | **Summer** |
| **Year 1** | **Cooking and nutrition: Make a salad** | **Mechanisms: Bridge building** | **Textiles: Make a sock puppet** |
| How do you make a healthy salad? | How can you build a stable bridge? | How can you join materials to make a sock puppet? |
| **Year 2** | **Cooking and Nutrition: Make a soup** | **Mechanisms: Make a vehicle** | **Textiles: Make a finger puppet** |
| How do you make a healthy soup? | How can you make a vehicle that moves? | How can you join materials to make a finger puppet? |
| **Year 3** | **Textiles: Make a bookmark** | **Cooking and Nutrition: Make a desert** | **Mechanisms: Pneumatics** |
| Which stitching techniques can you use to make a bookmark? | How do you bake a healthy desert (cake/biscuit)? | How do you make a moving toy using pneumatics?  |
| **Year 4** | **Textiles: Make a cushion** | **Cooking and Nutrition: Pizza** | **Mechanisms: Using cams** |
| Which sewing techniques can you use to make a cushion? | How do you make a healthy pizza? | How do you make a moving toy using cams?  |
| **Year 5** | **Mechanisms: Space buggy** | **Textiles: Make a soft toy** | **Cooking and nutrition: Make a meal** |
| How can you make a moving space buggy with an electrical system? | What complex sewing techniques can you use to create a soft toy? | How do you make a healthy two-course meal? |
| **Year 6** | **Mechanisms: Merry go round** | **Textiles: Make a pencil case** | **Cooking and Nutrition: Preparation and making of a three-course meal** |
| How can you make a toy with two different systems? | What complex sewing and joining techniques can you use to create a pencil case? | How do you make a balanced three-course meal? |