




DT: Practical Knowledge

| Year Two: I know how to... | | Autumn | Spring | Summer |
|--|--|--------|--------|--------|
|  <p>Design</p> | Generate and communicate ideas using sketches and models | | | |
| | Select suitable linkage systems to produce a desired motion | | | |
| | Design a product for a specific audience | | | |
| | Create design criteria for a product | | | |
| | Design a food product based on a food combination that works well together | | | |
|  <p>Make</p> | Make a structure according to design criteria | | | |
| | Create joints and structures from paper/ card and tape | | | |
| | Build a strong and stiff structure by folding paper | | | |
| | Select materials according to their characteristics | | | |
| | Follow a design brief | | | |
| | Make linkages using levers and pivots | | | |
| | Experiment with linkages, making adjustments | | | |
| | Cut and assemble components neatly | | | |
| | Slice food safely using the bridge or claw grip | | | |
| | Select and cut a range of materials/ fabrics | | | |
| | Thread a needle | | | |
| | Neatly pin and cut fabric using a template | | | |
| | Use running stitch with evenly-spaced, neat stitched to join fabrics | | | |
|  <p>Evaluate</p> | Evaluate own designs against design criteria | | | |
| | Evaluate different designs | | | |
| | Test and adapt designs | | | |
| | Use peer feedback to modify a final design | | | |
| | Evaluate which techniques were most effective | | | |
|  <p>Technical Knowledge</p> | Troubleshoot scenarios posed by the teacher | | | |
| | Know that materials can be manipulated to improve stiffness/ strength | | | |
| | Know a structure is something which has been formed or made from parts and can be stiff, strong and stable | | | |
| | Know that different materials have different properties and are therefore suitable for different uses | | | |
| | Know that mechanisms are a collection of moving parts that work together as a machine to produce movement <i>(input/ output/ levers/ pivots/ linkage/ levers)</i> | | | |
| | Know sewing is a method of joining fabric | | | |
|  <p>Cooking and Nutrition</p> | Know different stitches can be used when sewing | | | |
| | Know that 'diet' means food/ drink that animals usually eat | | | |
| | Understand what makes a balanced diet | | | |
| | Know the five main food groups | | | |
| | Understand that humans should eat a range of different foods from each food group <i>(carbohydrates/ fruits and vegetables/ protein/ dairy/ foods high in fat or sugar)</i> | | | |
| Know 'ingredients' means the items in a recipe/ mixture | | | | |