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**Long-term plan**

**Key Stage 1**

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| **Year 1**  **Moving Pictures**  Sliding Mechanisms; Levers and Pivots; Wheel Mechanisms; Plan and Design; Making Movies; and Evaluation | **Year 1**  **Playgrounds**  Exploring Equipment; Joining Materials; Designing Equipment; Making Models; Evaluating Equipment | **Year 1**  **Eat more Fruit and Vegetables**  Delicious Data; Using Senses; Preparing Fruit and Veg; Recipe Designs; and Let’s Eat! |
| **Year 2**  **Delightful Decorations**  Exploring Different Decorations; Cutting Skills; Sewing Skills; Time to Design; and Making a Decoration | **Year 2**  **Wacky Windmills**  Exploring Windmills; Making Strong Bases; Making Sails; Designing a Model Windmill; Constructing a Model Windmill; and Evaluation | **Year 2**  **Seaside Snacks**  Savoury Pinwheels; Edible Boats; Fruit Sculptures; Cake Decorations; Fruit Frozen Snacks; and Designing a Picnic |

**Lower Key Stage 2**

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| **Year 3**  **Sandwich Snacks**  Exploring food groups; investigate flavours and textures; design for purpose; create healthy sandwich; evaluate finished product | **Year 3**  **Storybooks**  Investigate levers and linkage systems; explore techniques for moving mechanisms; explore font and graphic techniques; design, make, evaluate | **Year 3**  **Making Mini Greenhouses**  Exploring Greenhouses; Stability; Materials; Designing a mini greenhouse; Constructing; and Evaluating |
| **Year 4**  **Seasonal Food**  All Year Round; Fruit; Vegetables; Meat and Poultry; Fish and Seafood; and Unusual Foods | **Year 4**  **Money Containers**  Exploring Features; Sewing Skills; Testing Designs; Designing and Planning; Bringing a Design to Life; and Evaluation | **Year 4**  **Torches**  Seeing the Light; Circuits and Switches; A Case Study; The Design; Let there be Light; and Evaluation |

**Upper Key Stage 2**

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| **Year 5**  **Burgers**  Exploring nutrition facts; Explore different patties, sauces, sides; Plan and design; Make and evaluate | **Year 5**  **Making African Instruments**  Investigating; Testing Materials; Making a Kalimba; Djembes and Shekeres; Performing and Evaluating | **Year 5**  **Funky Furnishings**  Investigating Cushions; Joining Techniques; Decorative Sewing Skills; Fastenings; Time to Design; Making and Evaluating |
| **Year 6**  **Fairgrounds**  Explore rotating mechanisms; investigate electric motors; investigate frameworks; design, make and evaluate ride with moving part | **Year 6**  **Chinese Inventions**  Pillars and Beams; Truss; Arches; Suspension Bridges; Design Criteria and Evaluating Designs | **Year 6**  **Great British Dishes**  Savoury English Dishes; Sweet English Dishes; National Scottish Dishes; National Welsh Dishes; Influences from around the World; Plan and Shop for a Meal |