**DESIGN AND TECHNOLOGY THEMES KEY STAGE 1: Years 1 & 2**

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| **Year** | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
| **A**  2020-21 | The Place Where I Live  (2) | Fighting Fit  (2) | Explorers  (2) | Growth and Green Fingers (1) | The Great Outdoors  (1) | Robots  (1) |
| **Technical Knowledge** |  |  | **Mechanisms:** Wheels and axles | **Food:** Comparing and combing foods | **Structures:** Stability and strength |  |
| **Project Ideas** |  |  | **Design and Make:**  A vehicle for Bob to explore the moon.  A vehicle to travel on the seabed.  A vehicle to tow a submarine to harbour.  A vehicle to carry four wooden bricks. | **Design and Make:**  Fruit kebabs for a barbecue dessert.  Fruit salad for a birthday party.  A fruit platter for a tea party.  Prepared ‘finger food fruit’ for a picnic. | **Design and Make:**  Playground equipment for a small world figure to slide down.  A tower that will hold a doll with long hair.  A bridge for Billy Goat Gruff.  A chair for Baby Bear. |  |

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| **Year** | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
| **B**  2021-22 | Penguins, Possums and Pigs (1) | Fire, Fire  (1) | Farm Shop  (2) | Family Album  (1) | Wind in the Willows  (2) | Buckets and Spades  (2) |
| **Technical Knowledge** |  | **Mechanisms:** Pop-ups and simple card levers | **Food:** The eatwell plate; where food comes from; healthy diet |  | **Textiles:** Using a template; simple joining; choice of stitches; choice of materials |  |
| **Project Ideas** |  | **Design and Make:**  A picture to illustrate burning building during Fire of London.  A picture to illustrate people escaping across the Thames. | **Design and Make:**  A seasonal salad using locally grown ingredients.  A salad to advertise or encourage healthy eating. |  | **Design and Make:**  A puppet to engage younger children in the retelling of a nursery rhyme.  A coat for teddy to keep him warm and/or dry.  A sunhat for teddy.  A pouch protect your reading book. |  |

**DESIGN AND TECHNOLOGY THEMES LOWER KEY STAGE 2: Years 3 & 4**

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| **Year** | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
| **A**  2020-21 | Sparks Might Fly  (4) | There’s No Place Like  Home (3) | Rock and Roll  (3) | Passport to Europe  (4) | Hunted  (4) | How Does Your Garden  Grow? (3) |
| **Technical Knowledge** | **IT control and electrical systems:** Control and electrical components |  |  | **Textiles:** Seams, stiffening and strengthening, materials and fastenings | **Food:** Simple savoury and cooking techniques | **Structures:** Shell/frame structures and strengthening |
| **Project Ideas** | **Design and Make:**  A quiz board to show response to questions.  A buzzer for visitors to the staffroom.  Lights for a display. |  |  | **Design and Make:**  A passport protector.  A money purse for two or more currencies.  A ticket holder for easy access. | **Design and Make:**  Food to sustain life – the eatwell plate.  A food item using foods grown/reared/caught. | **Design and Make:**  Planters for growing plants outside.  Miniature sized windowsill box.  Containers for known item – protection, secrecy, storage. |

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| **Year** | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
| **B**  2021-22 | Healthy Humans  (3) | The Great Plague  (4) | The Art of Food  (4) | The Iron Man  (3) | What the Romans Did  (3) | Water, Water  Everywhere (4) |
| **Technical Knowledge** | **Food:** Simple dish; the eatwell plate |  |  | **Mechanical Systems:** Levers and linkages |  |  |
| **Project Ideas** | **Design and Make:**  Food suitable for packaging and transporting i.e. picnic.  Food for health.  Food items using simple cooking techniques. |  |  | **Design and Make:**  A pop-up book to retell the story of the Iron man to a KS1 child.  A poster with moving parts to advertise the Iron Man book and film. |  |  |

**DESIGN AND TECHNOLOGY THEMES UPPER KEY STAGE 2: Years 5 & 6**

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| **Year** | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
| **A**  2020-21 | Survival  (6) | Britten’s Got Talent  (6) | Earthlings  (5) | Super Sleuth  (6) | Oh! I Do Like to Be Beside  the Seaside (6) | STEM / Enterprise Theme |
| **Technical Knowledge** |  |  |  |  | **Structures through an iterative process** | **Combining Learning across D&T skills:** |
| **Project Ideas** |  |  |  |  | **Design and Make:**  A fairground ride with moving parts and lights,  A miniature panoramic display of Blackpool illuminations, A safety barrier for a railway, to keep sheep off the line. | **Linked to chosen enterprise theme.** |

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| **Year** | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
| **B**  2021-22 | A Kingdom United  (5) | Food Glorious Food  (5) | Heroes and Villains  (6) | Inventors and Inventions  (5) | Faster Higher Stronger  (5) | Amazon Adventure  (5) |
| **Technical Knowledge** |  | **Food:** Food from another culture; variety of cooking techniques | **Food:** Chefs, food heroes; designing a healthy menu/eatwell plate | **Mechanical systems:** Cams, pulleys and gears |  | **Textiles:** Using gussets; using patterns; joining with seam allowance, combining fabrics |
| **Project Ideas** |  | **Design and Make:**  Explore and design food dishes from other cultures to be shared at a celebration of culture.  Design finger food for a celebration.  Design and make a birthday cake? | **Design and Make:**  Designing a healthy meal/menu using the Eatwell plate as guidance. | **Design and Make:**  A device for demonstrating how the moon orbits the earth.  A vehicle powered by a motor, using gears.  A simple moving display using gears.  A toy using cams. |  | **Design and Make:**  A waistcoat for an explorer with pockets to carry tools.  An apron to carry garden tools.  A hanging holder with pockets for storing items in a tent. |