**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 LikeHome (3) | Rock and Roll(3) | Passport to Europe(4) | Hunted(4) | How Does Your GardenGrow? (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, WaterEverywhere (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 Besidethe 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. |