**Design & Technology Framework**

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|  | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| Nursery | **Creating with Materials**  Children will explore different materials freely to develop their ideas about how to use them | | **Creating with Materials**  Children will create closed shapes with continuous lines and begin to use these to represent objects | | **Creating with Materials**  Children will develop their own ideas and then decide which materials to use to express them | |
| Reception | **Creating with Materials**  Children will know which glue or tape to use for their chosen purpose | | **Creating with Materials**  Children will learn how to mould clay | | **Creating with Materials**  Children will learn how make the flange join and treasury tag join | |
| Year1 |  | D & T PoP 1 -2  Preparing Fruit & Vegetables  On visit to shops, link with history, changes within living memory, buy products to make a salad  **Fantastic Fruit** |  | D & T PoP 1-2  Wheels and axles:  Make a toy bus for class toy to move around the room  **Let’s look at vehicles** |  | D & T Pop 1 – 2 Templates and Joining: Make a bag for collecting samples at the park linked to materials in Science, fieldwork and plants and animals.  **Fancy a bag?** |
| Year 2 |  | D & T PoP 1-2  Sliders and levers:  Make a card/information book about the events in History or the UK- Great Fire of London.  **Moving history book** |  | D & T Pop 1 – 2  Freestanding Structures e.g. make a support for plants to grow up e.g. beans/ sunflowers/ raspberries (for summer D & T)  Link to Eco School- Mr Nolan.  **Whose home?** |  | D & T Pop 1 – 2 Preparing Fruit & Vegetables  Grow some fruit and make a world fruit kebab from bought fruits., link to geography, naming continents etc  **Fantastic Fruit** |
| Year 3 |  | D & T Pop 3 – 4 e.g. Make a soup using vegetables found in Iron Age.  **Celebrating seasonality** |  | D & T PoP 3-4  Shell structures  e.g. Make a storage box for rock samples liked to science, or a postcard collection from around the UK or a Christmas gift box etc.  **Hinges and catches** |  | D & t PoP 3 – 4  Levers & Linkages  e.g. make an information book on the forces/ Ancient Civilisations – wheel/ moving stone on rollers.  **Moving history book** |
| Year 4 |  | D & T PoP 3-4  A healthy and varied diet Look at diets in Europe and make a healthy diet – Greek Salad, fish, A Greek Meze!  **Super salads** |  | D & T PoP 3 – 4 2D Shape – 3D Product  Make a drawstring string bag for themselves for any purpose (for storing Lego, a washbag, jewellery etc) based on the Roman Bulla. **Bendy bags** |  | D & T PoP 3 – 4  Simple Circuits & switches  Link to Science. Can you make a warning buzzer or a model of a Roman Soldier as a toy where you can make his eyes light up and switch them on and off?  **Designing and making alarm circuits using inputs with computer control** |
| Year 5 |  | D&T 5-6 PoP  Combining different fabric shapes to make a quilt gift / tapestry showing the cities/ counties of the UK **Designing with Textiles** |  | D & T PoP 5 – 6  e.g .soup.  Linked to class culture.  **Celebrating seasonality & culture** |  | D & T PoP 5 – 6  Pulleys & gears  Make a model theme park for younger children.  **Gears and Pulleys** |
| Year 6 |  | D&T 5-6 PoP  Celebrating seasonality and culture.  Relate to History Topic of WW2  **Celebrating seasonality & culture** |  | D&T 5-6 PoP  Frame structures e.g. Make an outdoor structures eg Air Raid Shelter.  Make prototype of the above. |  | D&T 5-6 PoP  More complex circuits Make an alarm system for a car. Linked to Science – Electricity. **Designing and making alarm circuits using inputs with computer control** |