

Design and Technology progression overview

| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|-----------|---|---|--|--|---|---|
| Designing | others based on a design Model ideas by exploring and construction kits a and mock-ups. State what they are des Say whether their product Say how their product Say how their product Say how they will make for the intended users. | ideas for themselves and gn criteria. ng materials, components nd by making templates esigning and making. duct is for themselves or their product is for. will work. e their product appealing ommunication propriate, to develop or | (home, school, indu Gather information of particular individ Use a given design of inform their ideas. Share and clarify ide Model their ideas upieces. Describe the purpor Indicate design feat will appeal to internet Explain how particut work. Use annotated sket drawings and explois communicate their | about the needs and wants uals and groups. criteria and use these to eas through discussion. sing prototypes and pattern se of their products. cures of their products that ded users. lar parts of their products ches, cross-sectional ded diagrams to develop and | (home, school, indust Carry out research, us questionnaires and we Identify the needs, was of particular individua Develop their own de to inform the design of appealing products the Share and clarify idea. Model their ideas usin pieces. Indicate design feature will appeal to intende Explain how particular work. | ants, preferences and values ls and groups. sign criteria and use these of innovative, functional, at are fit for purpose. s through discussion. og prototypes and pattern es of their products that d users. r parts of their products es, cross-sectional drawings on to develop and eas. |

| Making | Select from and use a range of tools and equipment to perform practical tasks e.g. cutting, shaping, joining and finishing. Select from and use a wide range of materials and components including construction materials, textiles and ingredients, according to their characteristics. Explore and evaluate a range of existing products. Evaluate their ideas and products against a design criteria. | | Select from and use a range of tools and equipment to perform practical tasks e.g. cutting, shaping, joining and finishing. Select from and use a wide range of materials and components including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities. Investigate and analyse a range of existing products. Evaluate their ideas and products against the design criteria and consider the views of others to improve their work. Understand how key events and individuals in design technology have helped shape the world. | | Select from and use a range of tools and equipment to perform practical tasks e.g. cutting, shaping, joining and finishing. Select from and use a wide range of materials and components including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities. Investigate and analyse a range of existing products. Evaluate their ideas and products against the design criteria and consider the views of others to improve their work. Understand how key events and individuals in design technology have helped shape the world. | |
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| Year 1 | Autumn 1 | Autumn 2 Sliders for life cycles to teach Reception children. Side to side movement. | Spring 1 | Spring 2 Textiles: Map making for community. Templates and joining techniques | Summer 1 Sliders on turrets and levers on drawbridges. Up and down movement. | Summer 2 Freestanding structures. Join materials with tape and cut and glue tabs. Explore how they can be made stronger, stiffer and stable. |
| Year 2 | | | Preparing fruit and vegetables for a healthy family snack Use peeling, cutting, slicing, grating, squeezing techniques. Understand where the food comes from. Wheels and axels on vehicles. | | Textiles: Hand puppets for Reception children. Templates and joining techniques. | |

| Year 3 | Blackberry crumble making for family treat. Understand seasonality and know where and how a variety of ingredients are grown. Use cutting using bridge and claw techniques. | | | Levers and linkages on Shadufs to move water. | Textiles: Cloth books for younger family members. Joining techniques: back and running stitch, blanket stitch or over sew stitch. |
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| Year 4 | | Electrical systems: Simple circuits and switches. Shell structures: Lanterns using nets of 3D shapes. | | Shell structures: Easter baskets using nets of 3D shapes. | |
| Year 5 | Frame structures to hold wells: Joining thin sectioned pieces of wood and making joints. Levers and pulleys in Wells to raise water. | | | Textiles: running, back, lazy-daisy and chain stitches for Space scenes combining different fabrics. | Bread making: Spanish inspired for family. Know where and how a variety of ingredients are grown and processed. Use mixing and rubbing to combine ingredients and kneading to make dough. |
| Year 6 | Electrical systems: Complex circuits and switches for lighthouses. | | Construction: Frame structures for Anderson shelters. | Tool use: Miniature Trojan horses | Textiles: Soft toys for younger siblings or EYFS children to combine different fabrics. |