




DT CURRICULUM MAP – Y4

| 4 | Autumn | | Spring | | Summer | |
|------------|---|-------------|--|------------------|---|-------------------|
| |  | Greenhouses |  | Egyptian Collars |  | Motorised Buggies |
| Brief | To design, make and evaluate the making of a model greenhouse. | | To design, make and evaluate a motorised buggy, for a specific purpose. | | To design, make and evaluate a motorised buggy, for a specific purpose. | |
| Skills | <ul style="list-style-type: none"> Design a greenhouse which is fit for purpose. Generate annotated sketches, labelling the different parts and materials that could be used. Consider how to produce this design, as a smaller scale model. Select and use a range of tools. Accurately cut, finish and join materials. Reflect on process and evaluate. | | <ul style="list-style-type: none"> Design and plan a textile collar, based on Egyptian designs. Annotate designs, suggesting suitable materials to use and ways to embellish. Cut fabric, using a pattern. Combine materials using joining techniques such as pinning, sewing, stitching and glueing. Experiment with a variety of stitches, to create patterns and design features. Apply decoration – buttons, sequins and beads, to add detail. | | <ul style="list-style-type: none"> Design a product which is fit for a particular design brief. Generate annotated sketches, using technical language to label the different mechanical and electrical components. Select and use a range of tools. Accurately cut, finish and join materials. Understand and use electrical systems. Use electrical circuits to create a functional product. | |
| Vocabulary | Greenhouse, greenhouse gases, atmosphere, environment, plastic, condensation, temperature, protection, sunlight, growth, timber, junior hacksaw, bench-hook, g-clamp, hot glue gun, timber. | | Collar, fabric, material, felt, thread, cotton, sew, needle, join, stitch, embroider, embellish, bead, button, sequin, scissors, glue, hemming, running stitch, overcast stitch, catch stitch, cross stitch, back stitch, blanket stitch, template, pattern | | Cell, cell holder, battery pack, wires, measure, bench-hook, junior hacksaw, g-clamp, pulley, chassis, axle, dowel, motor, wheels, elastic band, cable tie, movement, motion, linear, rotary, sandpaper | |
| Inventor | The French botanist Charles Lucien Bonaparte is often credited with building the first practical modern greenhouse in Leiden, Holland, during the 1800s to grow medicinal tropical plants. Originally only on the estates of the rich, the growth of the science of botany caused greenhouses to spread to the universities. | | 1846 Sewing Machine invented by Elias Howe . 1850 Isaac Singer produced a sewing machine which could be used at home. | | On January 29, 1886, Carl Benz applied for a patent for his “vehicle powered by a gas engine.” The patent – number 37435 – may be regarded as the birth certificate of the automobile. | |