

Subject Overview

| Design and Technology | | | | | | |
|-----------------------|---|---|--|--|---|---|
| | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| Nursery | Frame it <i>Use a range of tools and materials to make a picture frame</i> | Perfect porridge <i>Follow a simple recipe to make porridge</i> | Rocket Builders <i>Make simple structures using a range of materials</i> | Dinosaur Replica Fossils <i>Follow a simple recipe to make salt dough</i> | Crop Protectors <i>Important products are those that help people</i> | Transport <i>Explore, build and play with a range of resources and construction kits with wheels</i> |
| Reception | Planes, Trains and Automobiles <i>Explore, build and play with a range of resources and construction kits with wheels and axles</i> | Incredible Inventions <i>Construct simple structures and models using a range of materials</i> Delicious Smoothies <i>Suggest healthy ingredients that can be used to make simple snacks</i> | Toys From the Past <i>Construct simple structures and models using a range of materials</i> | Penny the Pig's Super Salad <i>Talk about what constitutes a healthy lifestyle. Design and make a simple salad</i> | Animal Masks <i>Select appropriate materials when constructing and making</i> | Light House <i>Construct simple structures and models using a range of materials. Some products use electricity to make them work</i> |
| Year 1 | Shade and Shelter <i>Naming everyday materials; Properties and uses of materials</i> | | Taxi! <i>Mechanisms – wheels, axles and chassis</i> | | Chop, Slice and Mash <i>Sources of food; Food preparation techniques; Hygiene rules; Designing and making salads</i> | |
| Year 2 | Remarkable Recipes <i>Sources of food; Kitchen tools; Reading recipes; Hygiene rules; Making a school meal</i> | | Beach Hut <i>Structures – strengthening and joining</i> | | Cut, Stick and Join <i>Everyday fabric products; Significant designer – Cath Kidston; Sewing patterns; Running stitch; Adding embellishments; Designing and making a bag tag</i> | |
| Year 3 | Making It Move <i>Cam mechanisms; Designing and making automaton toys; Cutting, joining, strengthening and finishing</i> | | Cook Well, Eatwell <i>Food groups; Eatwell guide; Methods of cooking; Cooking appliances; Hygiene rules; Making taco fillings</i> | | Greenhouse <i>Features of greenhouses; Significant designers – Sir Joseph Paxton and Sir Nicholas Grimshaw; Strengthening techniques; Using tools and safety rules; Properties of materials; Constructing strong frameworks</i> | |
| Year 4 | Fresh Food, Good Food <i>Food preservation techniques; Exploring food packaging; Prototypes; Designing, making and packaging healthy snack</i> | | Functional and Fancy Fabrics <i>Fabrics; Design features; Significant designer – William Morris; Stitching a hem; Embellishment; Designing and making patterned and embellished fabrics</i> | | Tomb Builders <i>Simple and compound machines</i> | |
| Year 5 | Moving Mechanisms <i>Pneumatic systems; Joining and finishing; Iterative design process; Building pneumatic machine prototypes</i> | | Eat The Seasons <i>Cooking; Nutrition</i> | | Architecture <i>Architecture over time; Greek architecture; Structural support, stiffness and stability; Computer-aided design; Building design</i> | |
| Year 6 | Make Do and Mend <i>Investigating clothing; Sewing – running stitch, whip stitch and blanket stitch; Repairing clothes; Making products from recycled materials</i> | | Engineer <i>Significant engineers and bridges; Features of bridges; Strengthening techniques; Iterative design; Building prototypes; Programming; Animating LEDs; Introducing repeats; Sensors and monitoring. Sensors and monitoring; Designing and making home devices; Incorporating programming and circuits in products</i> | | Food for Life <i>Whole foods; Processed foods; Making healthy meals; Hygiene and safety</i> | |