

St Saviour's C of E Primary School DT Curriculum Map 2023 – 2024

| | Autumn | Spring | Summer | Famous Designers/Engineers/Architects/Makers |
|------|---|---|--|--|
| EYFS | Build It! Child led Junk Modelling Salt Dough modelling & Tools / printing in to dough Lego / large bricks/crates | Move it! Puppets Vehicles Things that float – boat investigation | Sense it! Taste & Smell activities – blindfold game Cooking Texture matching Mud kitchen with tools / slime Colour Mixing | Isambard Kingdom Brunel Carl Benz |
| 1 | POAP – Sliders and Levers -explore & use sliders & levers -different mechanisms make different movements - cutting, shaping, joining. | POAP – Preparing Fruit & Vegetables -know where fruit & veg is from/how it is grown -know & use basics of 'Eatwell Plate' to prepare a dish -tools to: peel, cut, slice, squeeze, chop, grate | POAP -axles and wheels -explore & use axles, wheels and axle holders -Distinguish between fixed & free moving axles -range of tools & materials for cutting & joining | Summer: Henry Ford, Henry Royce |
| 2 | POAP - Joining & Templates -Use a template to make two identical pieces -Joining fabric: running stitch, over stitch, glue, stapling. -Finishing techniques: fabric paint, crayons, stitching, buttons, sequins, ribbon | POAP – Preparing Veg / Balanced Dish -know about seasonal veg and where/how veg is grown -plan and prepare a balanced savoury wrap/sandwich -use tools to: cut, chop, grate, spread | POAP - Freestanding Structures -How to make a structure stronger, stiffer, more stable -Select new and reclaimed materials to create model -Consider the user/purpose | Summer: Gustave Eiffel, Norman Foster |
| 3 | POAP - Pneumatics -to know about and able to use pneumatic mechanisms -Order the stages of making -Be able to join materials with accuracy including: tubing, syringes, balloons | POAP – Healthy & Varied Diet -follow a recipe -use to tools to prepare and combine food -select ingredients to make own recipe -know whether fresh ingredients is grown, reared or caught | POAP – 2D shape to 3D product -know how to strengthen, stiffen, reinforce existing fabrics -Securely join two pieces of fabric -know about and use patterns and seam allowances -select fastenings and fabrics according to functionality | Autumn: Robert William Thomson Spring: Mary Berry |
| 4 | POAP - Celebrating Culture and Seasonality 1 -know how to follow a recipe and make suggestions to adapt | POAP – Shell Structures -Know how to create a strong, stiff shell structure -develop knowledge of and use of variety of nets: cubes/cuboids & more complex 3D shapes. | POAP – Levers & Linkages -Understand and use lever and link mechanisms -Distinguish between fixed and loose pivots -select and use finishing techniques | Autumn: Nigella Lawson, Paul Hollywood |

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| | <ul style="list-style-type: none"> -know how to use utensils and equipment to prepare ingredients -to understand that some dishes are suited to a particular season or cultural event | <ul style="list-style-type: none"> -Use tools to measure, mark, cut, score, assemble accurately | | |
| 5 | <p>POAP – Sliders, Levers, Linkages & Pop-Up</p> <ul style="list-style-type: none"> -revise the mechanisms of sliders, levers & linkages -to know and use a variety of pop-up techniques -select appropriate mechanisms for effect -to mark out, measure, cut and assemble with accuracy | <p>POAP – 2D shapes to 3D Product 2</p> <p>-Securely join two pieces of fabric</p> <ul style="list-style-type: none"> -know about and use patterns and seam allowances -select fastenings and fabrics according to functionality -select appropriate finishing techniques / materials: sequins, buttons, ribbon, applique pieces | <p>POAP – Shell Structures with Computer Aided Design</p> <ul style="list-style-type: none"> -Develop knowledge and use of 3D nets: cubes/cuboids and when appropriate more complex shapes -Develop knowledge and skill of how to strengthen a product -Use computer aided design to create finishing touches to complete product (labels/cases/packaging) | <p>Autumn – Jan Pienkowski</p> <p>Summer: Phillipe Starck</p> |
| 6 | <p>POAP – Cams</p> <ul style="list-style-type: none"> -Understand that mechanisms have an input, process and output -Understand that CAMs can have different types of movement and can change direction -Compare final design with original plan -Consider views of others to develop work | <p>POAP – Celebrating Culture and Seasonality 2</p> <ul style="list-style-type: none"> -know how to use utensils and equipment including heat sources to prepare food -understand seasonality in foods and sources of food when planning a dish -understand how key chefs have had an impact on recipes for healthy eating | <p>POAP – Programming & Control</p> <ul style="list-style-type: none"> -to know how to use simple circuits in own product design including: switches, bulbs & buzzers -understand dangers of electricity -use of computing to programme the product (Crumbles) | <p>Spring: Jamie Oliver, Nadiya Hussain</p> |

structures, mechanisms, electrical systems, cooking and nutrition, textiles

Each project involves elements of: Designing, Making, Evaluating and developing Technical Knowledge.

EYFS – How DT fits in to the EYFS Curriculum

| | Nursery | Reception | ELG |
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| Personal, Social and emotional development | <ul style="list-style-type: none"> Select and use activities and resources, with help when needed. This helps them to achieve a goal they have chosen or one which is suggested to them. | | |
| Physical Development | Use large-muscle movements • Choose the right resources to carry out their own plan. • Use one- handed tools and equipment, for example, making snips in paper with scissors. | Progress towards a more fluent style of moving, with developing control and grace. • Develop their small motor skills so that they can use a range of tools competently, safely and confidently. • Use their core muscle strength to achieve a good posture when sitting at a table or sitting on the floor. | Use a range of small tools, including scissors, paintbrushes and cutlery (fine motor) |
| Understanding the World | Explore How things Work | | |
| Expressive Arts and Design | Make imaginative and complex 'small worlds' with blocks and construction kits, • Explore different materials freely, in order to develop their ideas about how to use them and what to make. • Develop their own ideas and then decide which materials to use to express them. • Create closed shapes with continuous lines, and begin to use these shapes to represent objects. | Explore, use and refine a variety of artistic effects to express their ideas and feelings. • Return to and build on their previous learning, refining ideas and developing their ability to represent them. • Create collaboratively, sharing ideas, resources and skills | Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. • Share their creations, explaining the process they have used (creating with materials) |