(insert subject) whole school curriculum map

DT Whole School Curriculum Content Map

	Year R	Year 1 and 2	Year 3 and 4	Year 5 and 6
Autumn	A **Me and my world** Design, make and evaluate photograph frames for a special photo. **Design purposeful, functional, appealing products for themselves and other users based on design criteria** B **Around Me** Bake bread **Understand where food comes from.** **Select from and use a wide range of materials and components, ingredients.**	A **What's around us?** Create a zip wire for a basket to travel along to take food to Grandma. **Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.** B **Wonderful events** Make a moving picture to show how the fires were put out in significant events.(Mechanisms- sliders and levers) **Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products**. Make a fire engine. Identifying the features, Investigating wheels, axles and chassis as the base of a fire engine. Investigating ways of creating the body of a fire engine. Design and make a fire engine. Evaluating their finished fire engines against design criteria. **Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology.** **Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing** Make bread (Food- balanced diet) **Understand where food comes from.** **Select from and use a wide range of materials and components, ingredients.**	A **What makes something memorable?** Design and make a chariot. **(Nets and structures/mechanical systems. Build structures, exploring how they can be made stronger, stiffer and more stable)** Make edible Roman road cake.(Food) **Understand and apply the principles of a healthy and varied diet.** Construct a pop up Christmas card (sliders, levers, pivots) **Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]** B **Blue planet** Create a product using recycled plastic bottles e.g a bird feeder. **Apply their understanding of how to strengthen, stiffen and reinforce more complex structures**	A **Blood, chills and thrills** We will design a moving fairground inspired by thrilling structures.(Mechanisms) **Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]** Christmas decoration (Textiles –stuffed toy)(Seasonal stockings) **Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately.** B **Who loves chocolate?** We will investigate packaging for chocolate and design new packaging following a brief. We will explore different styles of graphic writing and create own lettering for a chocolate bar. **Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups** **Apply their understanding of how to strengthen, stiffen and reinforce more complex structures.**
Spring	A **Journeys** Bake gingerbread **Select from and use a wide range of materials and components- ingredients. Use the basic principles of a healthy and varied diet to prepare dishes** Make a moving picture **(using simple mechanism - string)** **Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.** Use textiles and experience simple sewing **Select from and use a wide range of materials and components, including textiles.** B **Journeys** Use textiles and experience simple sewing **Select from and use a wide range of materials and components, including construction materials, textiles.**	A **What's under our feet?** We will make moving dinosaur pictures and pop-up dinosaur pictures **(Explore and use mechanisms) Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology** B **Wonderful World** Design and create a class patch work blanket, using different fabrics and joining techniques. **Select from and use a wide range of materials and components, including construction materials, textiles.** (Textiles – joining and decorating) **Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]** Igloo structure (Stable structures) **build structures, exploring how they can be made stronger, stiffer and more stable**	A **Is it better to stand out or fit it?** Plan, design and make brooches and hats.(Textiles – cross stitch and applique) **Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately.** B **Rainforests** Book - Design, make and evaluate and information book with moving parts (linkages and pivots) **Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]** Design, sew and evaluate poison dart frog beanbags (Textiles) **Select from and use a wider range of materials and components, including construction materials and textiles, according to their functional properties and aesthetic qualities.**	A **What a wonderful world** Programming Pioneers – we will focus on designing, developing, testing and prototyping computer-controlled electronic systems for rooms such as motion-sensor activated alarms, door buzzer entry systems or even 'smart home' automatic lights. **Apply their understanding of computing to program, monitor and control their products** **Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]** B **Survive or thrive** We will design and make a light up lighthouse. (Electrical systems) **Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]** We will make WW2 peg dolls using fabric. **Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately.** Great British dishes - We will make a savoury dish linked to rationing. (Food – Healthy) **Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques.**
Summer	A **Wider world** Homes- design, make and evaluate their own model houses. **Build structures, exploring how they can be made stronger, stiffer and more stable.** **Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing**	A **What's up?** Design and make a vehicle to move on the moon. (Vehicles) **Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology.** **Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.**	A **It's a kind of magic** Research board games and invent a new one. **Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups** - link to RE designing a Place of Worship for chosen belief.	A **Healthy world** We will design, make and evaluate a model of the Parthenon (temple) and a labyrinth. (structures -bridges) **Apply their understanding of how to strengthen, stiffen and reinforce more complex structures** B **Space**

	Select from and use a wide range of materials and components, including construction materials. B **Outdoors** Make a fruit salad / fruit kebab (Eat more fruit and veg) **Use the basic principles of a healthy and varied diet to prepare dishes** **Select from and use a wide range of materials and components- ingredients.**	B **Wonderful me** Design a recipe to include fruit and/or vegetables. (Food – Eat more Fruit and vegetables) **Use the basic principles of a healthy and varied diet to prepare dishes** **Select from and use a wide range of materials and components- ingredients.**	B **Inventors and inventions** Torches- explore different types of torches, the materials they are made out of and their varied uses, as well as investigating how torches work by creating simple circuits. After exploring which types of switches and casings are most effective and why, we will then have the opportunity to design, make and evaluate their very own torches. Electrical systems – (Static electricity) **Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]** **British inventors – We will focus on some important Victorian inventions and more recent 20th century inventions created by British inventors and scientists. We will discover how these inventions have changed the lives of the people who use them and how each of the inventions has been developed and changed.** **Understand how key events and individuals in design and technology have helped shape the world**	Moving Toys -We will design and make battery operate moon buggies. (Mechanisms) **Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]**