Design Technology Curriculum Map

Y1	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
		Food technology What could a healthy soup contain? **Building on** Early years Healthy eating unit **Leading to:** Year 2 Spring 2, 3 Spring 2, 4 Summer 2, 5 Summer 2, 6 Autumn 2 and Spring 2 **Rationale:** Life skills, balance diet and healthy eating		**Mechanisms** Can I make a picture page with moving parts? **Building on:** Early years Leading to year 2 Free standing structure and year 3 shell structures year 4 Levers and linkages **Rationale:** provide creative and practical activities where pupils are taught the knowledge, understanding and skills needed to engage in the process of designing and making.		**Mechanisms** Can I create a moving vehicle using wheels and axles? **Building on**: Early years and Year 1 Spring 2 **Leading to:** year 2 Free standing structure and year 3 shell structures Year 5 Cams **Rationale**: provide creative and practical activities where pupils are taught the knowledge, understanding and skills needed to engage in the process of designing and making.

Y2	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
		Stable structures Which joins create a stable structure? **Building on**: Early years, exploring materials **Leading to**: year 3 shell structures **Rationale**: provide creative and practical activities where pupils are taught the knowledge, understanding and skills needed to engage in the process of designing and making.		**Food technology** Can I create a healthy pizza for my learning partner? **Building on: E**yfs healthy eating Year 1 Healthy soup **Leading to** year 3, 4, 5, 6 **Rationale**: use the basic principles of a healthy and varied diet to prepare dishes and understand where food comes from		**Textiles** What is the most effective way to join fabric? **Building on:** Early years Weaving, exploring materials **Leading to**: year 3 and 5 **Rationale**: provide creative and practical activities where pupils are taught the knowledge, understanding and skills needed to engage in the process of designing and making.

Y3	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
		Shell structures- Can I create a frame structure using different strengthening techniques? **Building on**: year 2 stable structures unit. **Rationale**: Enable pupils to effectively use materials to design, construct and strengthen an aesthetically pleasing product.		**Food technology** Can I design a new type of bread? **Building on**: EYFS healthy eating, Year 1 Healthy soup, Year 2 healthy pizza Leading to year 4, 5, 6 **Rationale**: prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques. Understand seasonality		**Textiles** Which fastening methods are the most effective? **Building on**: EYFS weaving, Year 2 Autumn 1, **Leading to** year 5 **Rationale**: Giving opportunities to physically examine a range of fabrics and make informed choices to design and make a suitable product.

Y4	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
		Mechanisms Can I create a story book with moving parts? **Building on:** Year 1 spring 2 moving picture page, Year 1 summer 2 moving buggy. **Rationale**: Explore how mechanisms work and use mechanical systems. Design purposeful and meaningful products.		**Food technology** Can I create a healthy biscuit? **Building on**: EYFS healthy eating, Year 1 Healthy soup, Year 2 healthy pizza, year 3 create new bread design **Leading to**: year 5 and 6 **Rationale**: prepare and cook a variety of dishes using a range of cooking techniques. Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed. Consider marketing and packaging		**Simple circuit** Can I create a functional battery-powered night light using a simple circuit? Night light (Hepp DT) **Building on:** Spring 2 science unit on electricity. **Leading to:** Year 6, Summer 2 **Rationale**: Develop critical understanding of how circuits work and apply electrical components to products

Y5	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
		Mechanisms How do mechanisms work? (cams) **Building on:** year 1- Spring 2- moving picture page, Year 1 summer 2 Moon buggy, Year 4 autumn 1 moving picture book. **Rationale**: Explore how mechanisms work and use mechanical systems. Design purposeful and meaningful products.		**Textiles** Can I create a stuffed toy for younger children using research? **Building on**: year 3 summer 2 unit on pencil cases. **Rationale:** Challenge children to design, cut, stitch and decorate appealing products. Make informed decisions on stitching appropriate for product		**Food technology** Can I use seasonal ingredients to create a savoury quiche? **Building on:** Early years, Year 1 Healthy soup, Year 2 healthy pizza, year 3 create new bread design, year 4 healthy biscuit **Leading to:** year 6, Autumn 1 **Rationale:** understand the source, seasonality and characteristics of a broad range of ingredients, prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques. Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed

Y6	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2

		Food technology Can I design and make a new pasta shape and healthy sauce for our school lunch? pasta sauce recipe **Building on:** Early years healthy eating, Year 1 Healthy soup, Year 2 healthy pizza, year 3 Healthy sandwich, Year 4 Savoury quiche Year 5 seasonality savoury muffins **Leading to**: KS3 Cook a repertoire of predominantly savoury dishes so that they are able to feed themselves and others a healthy and varied diet **Rationale**: prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques. Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.		**Food technology** Can I create a sustainable food dish with the lowest? food mile. Food- pasta sauce recipe **Building on:** Early years healthy eating, Year 1 Healthy soup, Year 2 healthy pizza, year 3 Healthy sandwich, Year 4 Savoury quiche Year 5 seasonality savoury muffins, Year 6 **Leading to:** KS3 cook a repertoire of predominantly savoury dishes so that they are able to feed themselves and others a healthy and varied diet **Rationale**: prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques. Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed		**Electrical systems** How can I use my knowledge of electrical circuits to create a motorised buggy? **Building on** from Year 1 Summer 2 moving buggy, year 4 Electrical circuit (night light) **Rationale:** Develop critical understanding of how circuits work and apply electrical components to create a moving product.