



Subject Purpose: At SJP, we believe that the Design & Technology curriculum builds a foundation of practical skills and knowledge to enable ALL students to contribute to society as creators, makers, providers and problem solvers. We foster the concept of intentional and conscientious consumption of food and products in line with working toward a more sustainable and healthier future and explore the role that design and technology can play in this vision. Our curriculum plan allows all students to follow one (or two) distinct specialist subject pathways, comprising of a range of GCSE, A Level and vocational qualifications, allowing ALL students to be successful and to access a range of career pathways across a broad spectrum of industries.

Subject Long Term Plan

Week	6.09	13.09	20.09	27.09	4.10	11.10	18.10	1.11	8.11	15.11	22.11	29.11	6.12	13.12	4.01	10.01	17.01	24.01	31.01	7.02	14.02	28.02	7.03	14.03	21.03	28.03	4.04	25.04	3.05	9.05	16.05	23.05	6.06	13.06	20.06	27.06
Commencin	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10	WEEK 11	WEEK 12	WEEK 13	WEEK 14	WEEK 15	WEEK 16	WEEK 17	WEEK 18	WEEK 19	WEEK 20	WEEK 21	WEEK 22	WEEK 23	WEEK 24	WEEK 25	WEEK 26	WEEK 27	WEEK 28	WEEK 29	week 30	week 31	week 32	week 33	week 34	week 35	week 36
Year 7	Y7 INTRODUCTION TO FOOD & NUTRITION												Y7 POLYMERS & ENVIRONMENTAL FACTORS						Y7 PRODUCT DESIGN - BLOCK BOT (CATEGORISING MATERIALS & VISUAL COMMUNICATION)																	
	Safety in the food room	Pasta salad practical	Food safety practices	Pizza bread practical	Principles of The Eatwell Guide	Fruit muffins practical	Healthy eating guidelines	Fruit crumble practical	Environmental issues	Shortbread practical	Written assessment	Feedback and tasting investigation	Properties of polymers	Wastage processes	Marking out and drilling	Finishing and thermoforming plastics	Feedback and practical assessment	Sources and categories of timber	Rendering techniques	Designing the Block Bot	3D Drawing and rendering	3D Drawing and rendering	Block Bot final idea	Environmental impact and properties of timbers	Mark out and cut Block Bot pieces	Drill and sand Block Bot pieces	Assembling and decorating Block Bot	Assessment	Feedback & completion of project							
Pupils will know: - how to work safely and hygienically in the food room; - the key principles of nutrition and food choices; - how to protect the environment in food related issues. Pupils will be able to: - prepare, cook and present a variety of nutritious dishes; - consider the environment and food choice factors in relation to food; - keep food and themselves safe when working in the kitchen.												Pupils will know: - how to categorise polymers into thermo polymers and thermosetting polymers - how to describe the manufacture of a plastic product. Pupils will be able to: - use a range of tools, equipment and finishes to make an acrylic twizzle; - thermoform acrylic using a convection oven.						Pupils will know: - how to categorise materials by identifying their properties and sources; - about the environmental impact of different materials; - how to apply a range of visual communication and rendering techniques. - how to use a range of tools, equipment and finishing techniques to manufacture a timber product. Pupils will be able to: - identify renewable and non renewable materials; - render realistic materials on both 2D and 3D drawings; - manufacture a product using basic workshop tools.																		
Year 8	Y8 DIET AND HEALTH NEEDS												Y8 GRAPHICS & TEXTILES - ERGONOMIC BOTTLE BRANDING & MARKETING										Y8 GRAPHICS - ERGONOMIC BOTTLE DESIGN & MODELLING													
	Application of The Eatwell Guide	Scones practical	Macronutrients and their functions	Fajitas practical	Micronutrients, their functions and deficiency characteristics	Turkey burgers practical	Nutritional need through life	Burger buns practical	Dietary needs of special diets	Curry practical	Written assessment	Feedback and snacking investigation	Identifying the context of bottle design and branding	Developing a brand identity and logo	Finalising a logo design	Merchandising and material properties for printing	Printing and dyeing techniques	Printing and dyeing techniques	Tie dye and flyer practical	Tie dye and flyer practical	Stencil design	Stencil practical	Assessment lesson	Feedback and completion of project	Ergonomics & user profiling	Ideation and product analysis	The ellipse technique	Designing an ergonomic bottle	Developing and finalising a bottle design	Producing a template	Using the hot wire cutter	Wastage processes	Shaping processes	Finishing the bottle	Assessment	Feedback & completion of project
Pupils will know: - how to prepare and cook meals that suit a variety of nutritional needs; - about the functions of macro and micronutrients in the human body; - what nutritional requirements individuals can have and how these can change. Pupils will be able to: - prepare and cook a variety of family meals and desserts taking nutrition into consideration throughout; - explain the function of nutrients in the human body and describe nutritional requirements of given individuals.												Pupils will know: - how to develop a brand identity and design a logo which can be used on a range of promotional products and merchandise; - how to use dyeing and printing techniques on a range of materials and surfaces. Pupils will be able to: - design a logo to promote a product; - dye and print on paper based and textiles materials.										Pupils will know: - how to design a product which meets the requirements of a primary user; - how to develop a range of innovative and ergonomic design ideas. Pupils will be able to: - use a range of visual communication methods, including the ellipse technique and block modelling to communicate design intentions. - use a range of modelling tools and equipment safely and accurately.														
Year 9	Y9 FOOD SCIENCE AND SERVICE												Y9 VISUAL COMMUNICATION & VIRTUAL MODELLING						Y9 PRODUCT DESIGN - PASSIVE SPEAKER & PROPERTIES OF TIMBER																	
	Techniques and recall of principles of The Eatwell Guide	Pizza practical	Scientific function of bread ingredients	Jam tarts practical	Food packaging and labelling	Pasta bake practical	Hospitality and Catering establishments	Risotto practical	Menu planning	Victoria sponge practical	Written assessment	Feedback and snacking investigation	Oblique and isometric projection	Practicing isometric projection skills	Applying isometric projection skills	Intro to 3D CAD modelling	Using 3D CAD tools to model a house	Rendering skills for 3D CAD modelling and assessment	Passive speaker context	Hardwoods, softwoods and sustainability	Marking out and cutting timber	Understanding and identifying stock forms	Designing the Passive Speaker	Use of Scroll saw/ tenon saw	Use of hole saw	Shaping processes	Shaping and gluing processes	Assessment	Feedback and finishes	Final design	Shaping and sanding processes	Applying a finish	Applying a finish	Decoration	Assessment	Feedback & completion of project
Pupils will know: - how to work professionally to plan, prepare and cook various dishes suitable for different establishments and individuals; - about the role of food science in production of dishes; - the elements of packaging and labelling for different food products. Pupils will be able to: - plan, prepare and cook a variety of restaurant standard dishes; - explain the chemical functions of ingredients used in bread production; - consider nutritional elements and needs when menu planning.												Pupils will know: - how isometric projection and CAD tools are used to create 3D drawings & models; Pupils will be able to: - communicate ideas using 3D drawing methods; - communicate ideas using CAD modelling methods.						Pupils will know: - about timbers and boards and their properties; - how to permanently bond timber based materials to each other; - how to apply different finishes and decoration to a timber product. Pupils will be able to: - how to use waste processes and tools to manufacture a Passive Speaker. - use a range of hand and machine abrading equipment to prepare the materials for finishing; - apply paint, varnish and other finishes to a timber product.																		