

## Year 7 Design & Technology 23-24

**Programme of Study** 

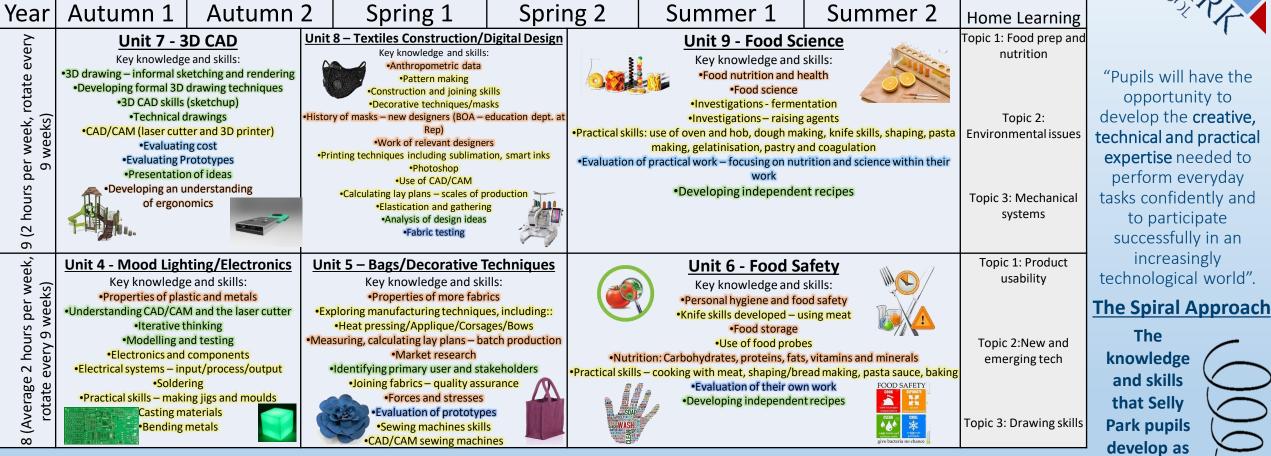
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Year	Autumn 1	Autumn	2 Spring 1	Sprii	ng 2	Summer 1	Summer 2	Home Learning	· ·	
7 Theory work (taught in sets. 2 hours fortnightly)	Unit 3a – Drawing Techniques Colour wheel		Unit 3a – Drawing Techniques       Unit 3b – Food and Nutrition         • Colour wheel       • Develop a knowledge and understanding of what is meant by a         • Oblique view       • Doblique view         • Isometric drawings       • Perspective drawing         • Orthographic drawing       • Design menus suitable for different age groups		Unit 3c - Materials         •Understanding mechanisms         •Properties of wood         •Properties of metals         •Tessellation - calculations         •Investigate properties of fabrics         •Design a range of products with a variety of different materials         Short         Short         Strong         Weak			Set in project work	"Pupils will have the opportunity to develop the <b>creative</b> , <b>technical and practical</b> <b>expertise</b> needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world".	
7 Project work (1 hours per week, rotate every 9 weeks.	Unit 1 – Timbers, <u>mechani</u> Key knowledge •2D and 3D drawin •2D CAD (Computer •Woodworkers tools •Testing of pro •Analyse existing	sms and skills: g techniques Aided Design) and machinery ototype	Unit 2 – Textiles/sto Key knowledge and sk •Hand embroidery •Decorative technique O Applique/Disperse Dy •Health and Safety •Heat transfer printing •Technical specificatio •Testing, evaluating, refir •Product analysis	ills: s res n	•Evaluate practi	Unit 3 - Healthy I Key knowledge and s •Understanding knife skills f the oven through a variety of fo cal work and explain the functio work knife work – julienne, sauce mak use of the hob/oven, boiling	skills: in kitchen ocused practical tasks. on of nutrients within their own sing, baking, rubbing in method	Topic 1: Materials and their properties Topic 2: Tools and equipment Topic 3:Energy source	The Spiral Ap The knowledge and skills that Selly Park pupils develop as they move up the	oproach

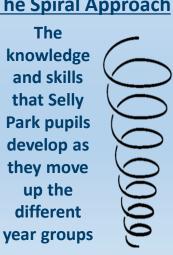
different year groups 000000

## **KS3 Design & Technology Department**

**Programme of Study** 







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## KS4 Design & Technology/Engineering Department

Programme of Study

Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	Home Learning	
(2	UNIT 15 - NEA Key knowledge and skills Exploring ideas Design thinking Design communication Final prototype Evaluate	S: Social			<ul> <li>Revision Programme</li> <li>Preparation for exam (50%)</li> <li>Coverage of all relevant topics</li> <li>Past papers</li> </ul>		Topic 1: Specialist material choice Topic 2: Systems Topic 3: Designing and making principles	CII
	UNIT 13 - Practice Key knowledge and skills: • Exploring ideas • Design thinking • Design communication • Final prototype • Evaluation		Key knowledge a Developing p Focus on cho CAD/CAM		UNIT 15 - NEA Key knowledge and skills: • Exploring ideas • Design thinking • Design communication • Final prototype • Evaluation	Contextual challenges 2019/20 • Sustainability • Travel Disruption • Countryside	Topic 2: Materials in	"Pu dev <b>tech</b> exp

## **KS4 Food Preparation & Nutrition Department**

Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summ	ner 1	Summer 2	Home Learning	successfully in an increasingly
per	UNIT 17 F&N - NEA 1 (15 • Food science investigat		n task, release date 1 <sup>st</sup> No	wember consisting of:	Revision Progra • Preparation for			Topic 1: Food Choice	echnological world".
urs ik)		nber <mark>- Research</mark>		wember, consisting or.	<ul> <li>Coverage of all topics</li> </ul>	• •		Topic 2: Food Provenance	ne Spiral Approacl
(2 ho wee	consisting of: • Research	- Planning - Making			Past papers	PRACTICE MAKES DERFECT			The knowledge
11	Investigation     Analysis & Evaluation	- Analysis and Eval	uation					Topic 3: Focus areas	and skills
per	UNIT 16 – F+N GCSE Key Skills and knowledge:	and the second sec	Food safety	Food Safety		F&N – Pract Key knowledg	tice NEA 1/2 e and skills:	and Health	that Selly Park pupils
ours ek)	<ul> <li>Proteins, carbohydrate</li> <li>Food science investigat</li> </ul>	, fats, vitamins and minerals tions: gelatinization,		I food choice ent recipes and designing	meals for a	<ul><li>Food prepa</li><li>Portfolio of</li></ul>	ration task work evidencing		develop as
(2 hc	<ul><li>coagulation, denaturat</li><li>Developed practical ski</li></ul>		<ul> <li>different lifestyles/cu</li> <li>Variety of more comp</li> </ul>	ltures plex practical skills includin	glasagne, puff	research, pr on required	actice dishes and evaluati	Topic 2: Food science	they move
10	- Knife skills, blind b deboning chicken, fresh pa	aking, pastry, filleting fish, asta, starch based sauces	pastry.			<ul> <li>Analysis &amp; E</li> </ul>	Evaluation LOVE SCIENCE	Topic 3: Food safety	up the 0

"Pupils will have the opportunity to develop the **creative**, **technical and practical expertise** needed to perform everyday tasks confidently and to participate successfully in an increasingly echnological world".