Year 7 Learning Plan - Design Technology

	SYSTEMS AND CONTROL	RESISTANT MATERIALS	GRAPHICS	FOOD	TEXTILES
Topic	**Desk Light**	**Key rings (Plastics and Pewter Casting)**	**Packaging**	**Eatwell Guide**	**Soft Toy**
Work of Others	Norman Foster	Bauhaus Laszlo Moholy-Nagy	Lisa Smith	Eatwell Guide	John Burgerman
Threshold **concepts** explored	CAD/CAM Practical Skills – soldering Design Skills Health & Safety Processes – laser cutting, strip heating	CAD/CAM Practical Skills – shaping and finishing Design Skills Health & Safety Processes – pewter casting	Design Skills Creativity Practical Skills – craft knife	Food Hygiene & Safety Nutrition Practical Skills – knife Processes – dextrinization, caramelization, coagulation	Design Skills Practical Skills – hand stitching and embellishment Health & Safety
Building on	Knowledge from primary school/previous rotations	Knowledge from primary school/previous rotations	Knowledge from primary school/previous rotations	Knowledge from primary school/previous rotations PSHE and PE lessons	Knowledge from primary school/previous rotations
Leading to	A functioning desk light inspired by the architecture of Norman Foster	Two key rings influenced by the Bauhaus design movement that show emerging skill and growing confidence	A hand rendered example of a 3D packaging net that shows an emerging understanding of design	A range of dishes that are safely and skillfully prepared with an emerging understanding of nutrition	A hand stitched soft toy influenced by Burgerman that shows a range of hand embellishment techniques
How will you know how you are doing and how to improve?	Self/Peer Evaluation Midpoint Evaluation End of Project Assessment End of Project Test	Self/Peer Evaluation Midpoint Evaluation End of Project Assessment End of Project Test	Self/Peer Evaluation Midpoint Evaluation End of Project Assessment End of Project Test	Self/Peer Evaluation Midpoint Evaluation End of Project Assessment End of Project Test	Self/Peer Evaluation Midpoint Evaluation End of Project Assessment End of Project Test
Experiences to look out for	STEM Club 'Looking inside everyday products' Club DT Club DT Trip to Concorde Christmas Craft Club (Term 2)		Textiles Club Christmas Craft Club (Term 2)	The Great Hardenhuish Bake Off (Term 1) Easter Baking Competition (Term 4)	Christmas Craft Club (Term 2)
	The Festival of Design (Term 3)				
A links to useful resources	KS3 Technology and Design - BBC Bitesize	Control systems - KS3 Technology and Design - BBC Bitesize	Lisa Smith | United States | D&AD Member Profile | D&AD	Food groups and the Eatwell Guide - Food and nutrition for good health – CCEA - GCSE Home Economics: Food and Nutrition (CCEA) Revision - BBC Bitesize	Jon Burgerman talking about his work

Year 8 Learning Plan - Design Technology

	SYSTEMS & CONTROL	RESISTANT MATERIALS	GRAPHICS	FOOD	TEXTILES
Topic	**Timer**	**Storage Challenge**	**Trainer design**	**Food provenance and sustainability**	**Printed Cushion**
Work of others		Morag Myserscough Aljoud Lootah	Nike Paula Scher		Vivienne Westwood
Threshold **concepts** explored	ACCESSFM Practical Skills – Soldering Creativity	ACCESSFM Design Skills Practical Skills – shaping and finishing Health & Safety	CAD/CAM Design Skills Sustainability Creativity	Sustainability & Provenance Practical Skills Cooking Processes Food Hygiene & Safety Processes - coagulation	ACCESSFM Creativity Practical Skills – sewing machine, printing, pattern cutting Design Skills
Building on	Year 7 skills and knowledge from previous rotations	Year 7 skills and knowledge from previous rotations	Year 7 skills and knowledge from previous rotations	Year 7 skills and knowledge from previous rotations	Year 7 skills and knowledge from previous rotations
Leading to	A functioning electronic toy	An innovative wooden storage solution	An innovative pitch for a new trainer marketing campaign	A range of dishes that are safely and skillfully prepared with an emerging understanding of sustainability and provenance	A machine stitched and hand printed fabric cushion
How will you know how you are doing and how to improve?	Self/Peer Evaluation Midpoint Evaluation End of Project Assessment End of Project Test	Self/Peer Evaluation Midpoint Evaluation End of Project Assessment End of Project Test	Self/Peer Evaluation Midpoint Evaluation End of Project Assessment End of Project Test	Self/Peer Evaluation Midpoint Evaluation End of Project Assessment End of Project Test	Self/Peer Evaluation Midpoint Evaluation End of Project Assessment End of Project Test
	Year 8 Exam				
Experiences to look out for	STEM Club 'Looking inside products' Club DT Club DT Trip to Concorde Christmas Craft Club (Term 2)	Christmas Craft Club (Term 2)	Christmas Craft Club (Term 2)	The Great Hardenhuish Bake Off (Term 1) Easter Baking Competition (Term 4)	Textiles Club Christmas Craft Club (Term 2)
	The Festival of Design (Term 3)				
A links to useful resources	KS3 Technology and Design - BBC Bitesize	Control systems - KS3 Technology and Design - BBC Bitesize	Paula Scher Abstract: The Art of Design | Paula Scher: Graphic Design | FULL EPISODE | Netflix	Where does our food come from? | BBC Teach	Who was Vivienne Westwood? | KS2 | Primary - BBC Bitesize

Year 9 Learning Plan - Design Technology

	SYSTEMS & CONTROL	RESISTANT MATERIALS	FOOD	TEXTILES
Topic	**Alarm and secure plus Short term shelter**	**Flat-Pack Furniture & Street Furniture**	**Food Commodities**	**Juggling beanies and PJ Shorts**
Work of others	Handheld electronic products RAF	Norman Copenhagan Ikea	Planned recipes	William Morris
Threshold **concepts** explored	ACCESSFM+ Practical Skills – soldering, breadboarding, modelling, Lego technic – mechanisms / structures Flow charts / Blocky and programming Creativity – design / graphic skills Health & Safety	ACCESSFM Design Skills Practical Skills – shaping and finishing Health & Safety Work of others	Sustainability & Provenance Practical Skills Cooking Processes Food Hygiene & Safety Allergies and intolerances Processes – coagulation Identify the key nutrients	ACCESSFM Creativity – independent learning Practical Skills – sewing machine, printing, pattern cutting Design Skills Health & Safety
Building on	Year 7 & 8 skills and knowledge from previous rotations. In particular, basic electronic theory, component recognition and practical electronics	Year 7 & 8 skills and knowledge from previous rotations	Year 7 & 8 skills and knowledge from previous rotations	Year 7 and 8 skills and knowledge from previous rotations, in particular hand stitching and sewing machine
Leading to	A functioning electronic (programmed) alarm system. A model of a proposed design for a collapsible temporary shelter.	An innovative flat-pack furniture product for a child A scaled prototype of innovative street furniture	A range of dishes that are safely and skillfully prepared with an emerging understanding of sustainability and provenance	A batik, tie dye and hand-printed set of juggling beanies that are machine stitched. Extension – fabric bag. A pair of PJ shorts using a pattern.
How will you know how you are doing and how to improve?	Self/Peer Evaluation Assessment feedback sheet End of Project Assessment	Self/Peer Evaluation Midpoint Evaluation End of Project Assessment End of Project Test	Self/Peer Evaluation Midpoint Evaluation End of Project Assessment End of Project Test	Self/Peer Evaluation Midpoint Evaluation End of Project Assessment End of Project Test
Experiences to look out for	STEM Club 'Looking inside products' Club DT Club Christmas Craft Club (Term 2)	Christmas Craft Club (Term 2)	The Great Hardenhuish Bake Off (Term 1) Easter Baking Competition (Term 4)	Textiles Club Lunchtime Club Term 3 Christmas Craft Club (Term 2)
	The Festival of Design (Term 3)			
A links to useful resources	KS3 Technology and Design - BBC Bitesize	Control systems - KS3 Technology and Design - BBC Bitesize How we work – IKEA Global Normann Copenhagen | Scandinavian Design Furniture	https://www.youtube.com/watch?v=a0tupj7xJpo 11 Different Creative Fun Ways To Shape Bread Rolls - YouTube	Sources, origins and properties - Textiles: Sources and properties - Eduqas - GCSE Design and Technology Revision - Eduqas - BBC Bitesize Home - William Morris Gallery