Subject: DESIGN & TECHNOLOGY Term 1 Term 2 Term 3 Term 4 Term 5 Term 6 YR **Product analysis** Eat well guide **Y7 Drawing techniques -**Food hygiene and safety One-point perspective 6Rs Investigation the work of others -Primary and secondary data Healthy diet Art Deco Designers **Timber based materials** Sensory analysis Features of Art Deco Investigation the work of others – Food labelling Generating ideas Alessi Design Company Writing recipes Specification check Generating annotated ideas Developing ideas Mechanical devices Healthy eating **Y8** Model making Material selection Properties and applications of Smart Properties of Boards Fridge safety Tessellation materials. Papers and Boards Fibre and Hydration Iterative design - Experimenting with Marking out and assembly Energy Finishing and joining materials pop up mechanism Sensory analysis Health and safety Investigating the work of others -Function of ingredients – pastry product analysis **Recipe hunters** Composition and layout Tin of beans challenge Bacteria and food storage CAD – Adobe illustrator Developing ideas through **Y9 Drawing techniques -**Ergonomics Specification writing Realising design ideas One-point perspective Introduction to 2D vector drawings for Anthropometrics Generating annotated collaboration Evaluating Modelling Forces and stresses Two-point perspective laser cutting Investigating the work of other ideas smart materials Iterative design through CAD modelling designers Introduction to basic 3D Cutting list Ecological and social CAD modelling – Tinker Adhesives footprint Mobile phone stand Evaluating Product comparison Iterative design through modelling Product analysis CAD Wood joints The work of other design 6Rs Evaluating design ideas Timbers Joining materials companies Modern materials and Scales of production technical textiles Polymers Commercial manufacturing Drawing techniques CAD Mini NEA Mini NEA NEA NEA **Y10** One and two-point perspective 2D vector drawings for laser cutting Investigating design possibilities& Design brief and Investigating design Generating design ideas Isometric drwings Laser cutting training Evaluating specification possibilities Sources of inspiration Exploded views Flat pack Client interview & Location visit Generating & Developing Design brief and specification Perspective and isometric Client profile Theory – Industry and enterprise ideas Theory drawings Industry and Enterprise Papers and Boars Investigating the work of others Specification check Model making Theory – Sustainability and the environment People, culture and society Relevant issues Seeking client's opinion Metals and Allovs Annotating design ideas Production techniques and systems Theory – and developing ideas Timber based materials Specification check Informing design decisions Smart & Modern materials using client's opinions. Forces and stresses Client/Third party opinion Composites & technical textiles Theory – Quality control & tolerances Mechanical devices & Motion

WFA Long Term Curriculum Plan

	0					
				Systems approach to		Weston Favell Academy
				designing		
				Physical & working		
				properties of materials		
Y10-	Developing Design ideas	Realising Design ideas- making	Testing and evaluating	Exam Revision –	Exam Revision –	Exam Revision –
11	Orthographic drawings	principles	Testing against specification	Core technical principles	Specialist technical	Designing and making
	Exploded drawings	Marking out and wasting materials	Testing fitness for purpose and		principles	principles
	Manufacturing specification	Laser Cutting	suitability for user			
	Cutting list	3D printing	Evaluating final prototype			
	CAD drawings	Thermoforming	Commercial viability			
	0	Mock Assembly	,			
		Joining materials				
		Applying surface treatment and				
		finishes				
V11	Investigating design possibilities	Investigating design possibilities	Developing design ideas	Developing design ideas	Realising design ideas	
• • • •	Design brief and specification	Design brief and specification	Modelling	Realising design ideas	Evaluating	
	New and Emerging Technologies	Generating design ideas				Exam Revision –
				Exam Revision –	Exam Revision –	Designing and making
				Core technical principles	Specialist technical	principles
					principles	
					principies	