oject1	Materials Technology - Animal		Futuro loovoing
k 2hr	Prior	Current	Future learning
essons	Lesson 1 - Introduction to workshop, Materials, H&S and tools and equi Life experiences of materials Some recall from MC. students Life experiences of tools used with the family. The design process if this is not the first unit. Some H&S knowledge if this is not the first unit.	jpment. An introduction to using the workshops, hand and power tools. Introduce polymer and Timber sources and material groupings Properties of Pine and Acrylic and reasons for choice. Material origins and uses finite resources. Learning the names of tools and equipment. The Design process (introduction or recap)	An understanding of how to follow the design process Yr10/11 Understanding of how to design. knowledge of how materials can be used, cut, formed etc and their limitations. Their ability to creatively use the materials with a continually developing competence.
	Lesson 2 - Introduction to oblique drawing and Rendering. Basic drawing skills, control of pencils and colour	Key aspects of for filling a brief Gathering useful research. Oblique drawing methods, rendering, annotation.	Continued understanding of the design process in next units and through school. Oblique drawing methods, rendering, annotation in all years
	Lesson 3 - Introduction to manufacturing aids and working wi		
	Use of scissors, measurement, estimation	Accurate working on manufacturing aids. Production methods using a range of tools and two materials	Yr 8 Clocks developing 3D material usage. Yr 9 independent use of the workshop. Their personal skill level and ability to work the material
	Lesson 4 – Developing production skills and quality. Understanding for 'quality' pride in their work	Finishing skills, quality checks and standards/quality control.	Quality control each prototype, as a consumer. Meeting wants and needs of clients.
	Lesson 5 – Working with acrylic and assembly methods. Putting parts together, processes, lego, models etc. Some have experienced low temp glue guns.	Assembly of the product. Using standard components Use of hot glue gun and finishing skills.	Use of standard components, yr 7 pencil case yr 8 clocks, and electronics Standard joins yr 9. GCSE N and exam. Life skills, repair, recycle.
	Lesson 6- Completion, evaluation and reflection on skill devel Some awareness of the word in wider context	lopment. Evaluation of own learning and further skill development.	Within each project and enable to give it on work o others both peers and work of professionals.
inst	Better They understand the process they have been through to help th equipment that they have used and explain what it does. They s Excellent Materials understanding and knowledge is very good they unde they have been through to help them produce a prototype of th that they have used and explain what it does. They have the con-	erstand where materials come from and our need to choose and select reir best idea; it is very well made and often complex. Quality control	good degree of quality control. They can name the too t material for certain functions. They understand the p
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Deeper understanding of design process, why we need to use a brief and specification. Understand functions of parts on a sewing machine and thread up with some assistance. Use ICT skills to create a more complex repeat pattern for design idea. Largely be able to use tools and equipment independently with some confidence and name them all. Understand different volumes of production and manufacturing aids. Quality control is applied to the manufacture of the prototype.

roject	Food Preparation and Nutrition	 Hygiene and Safety, Equipment and 	l Basic Skills Unit.		
x 2hr	Prior	Current	Links to future tasks		
essons	Lesson 1 - Introduction to safe working practices in the Food	room.			
	Possible small amount of baking at KS2 (domestic based kitchen if any) Life experiences – dependant on home circumstances and knowledge – usually baking if any.	Correct terminology of equipment and processes. Introduction to basic skills – peeling, use of digital scales. Complete potato peeling investigation - first investigation task (GCSE link).	Recall of equipment and its uses, weighing and measuring in year 8-11. Investigation Tasks for GCSE.		
	Lesson 2 - Fruit Salad Practical				
	Peeling. Basic use of the room.	Use of room for first time, chopping using bridge hold and claw grip, slicing and dicing, washing fruit, enzymic browning.	Five a day and the Eatwell guide – GCSE and life knowledge. Preparation skills used throughout year 7-11. Enzymic browning (GCSE).		
	Lesson 3 - Introduction to the "Eatwell Guide"				
	Possible small amount discussed at KS2 – can be outdated using the "Food pyramid" or "Eatwell plate". Often conflicting view with what is eaten at home.	Introduce the Eatwell guide – health experts and the government recommendations for eating a balanced diet. Emphasis on not good and bad foods but foods we should be eating more of than others.	GCSE and life knowledge. Governments "Balance of Good Health" regulations.		
	Lesson 4 - Oat Crunchies Practical				
	Healthy eating guidelines. Health and safety in the practical room. How to work with a partner during practical. Use of digital scales.	Accurate measuring. Rubbing in method. Adding liquids to form a dough. Use of oven.	Use of rubbing in method for different doughs in ye 8-11 including pastry and scones. Building on types of equipment used.		
	Lesson 5 - Apple crumble Practical				
	Peeling. Chopping. Rubbing in method. Use of oven. Enzymic browning. Bridge and claw grip.	Recall: Use a corer and peeler safely, use the bridge and claw grip to cut uniform pieces. Use the rubbing in method to make the topping correctly and judge if the crumble is cooked correctly.	Use of the practical room. Use of oven. Use of rubbing in method for different doughs in ye 8-11 including pastry, bread and scones. Building on types of equipment used.		
	Lesson 6 – Naan bread practical				
	Peeling. Chopping. Bridge and Claw grip. Adding liquid to make a dough. Use of the oven.	Emphasis on kneading to give gluten stretch and a smooth dough. Forming, kneading and shaping a dough.	Yr 8 recall use of equipment and room with a promotion of independence. Progress to working with high risk foods. Continue to develop GCSE preparation skills linked with the GCSE curriculum.		
	Good Be able to identify small equipment and know how to use sharp equipment safely. Use a peeler, a corer and a sharp knife safely using the claw and bridge grip. Make finished products in the time set. Know large pieces of equipment and how to use them safely, use the oven. Use the rubbing in method and mix ingredients together to make a dough. Shape a dough to make a fin product. Know what the Eatwell guide is and who it is for.				

Be able to identify small equipment and be able to easily suggest uses. Know how to use sharp equipment safely and work in a team to peel and use scales. Cut fruit into uniform pieces accurately. A high quality product suitable for sale is produced and work independently in the set time.