Design Task	ADVENT TERM					
Design Technology – Year 4 - Medium Term Planning – Food and Nutrition Design and make packaging for a healthy snack						
LESSON 1	LESSON 2	LESSON 3				
LEARNING INTENTION:	LEARNING INTENTION:	LEARNING INTENTION:				
To know that decay can be prevented or	To know that food packaging is made to keep	To know that most cardboard packaging is				
delayed by preservation methods.	food fresh for longer but needs to be	produced from a net.				
	environmentally friendly.					
Skills:		Skills:				
To explain how and why a significant designer o	rSkills:	Use annotated sketches and exploded diagrams				
inventor shaped the world.	To describe the importance of cutting down on	to test and communicate their ideas.				
	the use of single-use plastics and non-recyclable					
Aim:	materials.	Aim:				
Build and apply a repertoire of knowledge		Develop the creative, technical, and practical				
understanding and skills in order to design and	Aim:	expertise to perform everyday tasks confidently				
make high quality products for a wide range of	Build and apply a repertoire of knowledge	and to participate successfully in an increasingly				
users.	understanding and skills in order to design and	technological world.				
	make high quality products for a wide range of					
	users.					
Key Vocabulary:	Key Vocabulary:	Key Vocabulary:				
Decay, deteriorates, pasteurization,	Design features, preserve, investigate,	Annotated sketches, exploded diagrams, nets,				
microorganisms.	packaging	shell frame.				
Recap & retrieval	Recall & retrieval	Recall & retrieval				
Recap Year 3:	• Decay can be prevented or delayed by	Decay can be prevented or delayed by				
 Key inventions in design and technology have changed the way people live. 	preservation methods, such as drying, salting,	preservation methods, such as drying, salting, pickling, canning, pasteurising, refrigerating or				
changed the way people live.	pickling, canning, pasteurising, refrigerating or freezing the food.	freezing the food.				
	freezing the food.	Plastic is a harmful and wasteful material because				
		it takes thousands of years to break down.				
Key Knowledge:	Key Knowledge:	Key Knowledge:				
Child:	Child:	Child:				
• Food deteriorates due to the growth of	 Food packaging is important for several reasons. 	 Food packaging is produced using a net, 				
microorganisms.		which is a 2-D piece of material that is				
		folded and secured to make a 3-D shape.				

	salting, pickling, canning, pasteurising,	<mark>break down.</mark>	highlight sections or show functions.
	refrigerating or freezing the food.		
• • Teach • •	in keeping foods fresh. The 'use by' date shows when the food is no longer safe to eat. The 'best before' date shows the date after which the food will lose some flavour or texture.	 Food packaging protects food, makes food last longer, makes it easier to transport, makes food encourages people to buy it and provides information about the product. 36% of plastics are used in packaging of which 85% of single use plastics ends up in landfills. Significant designers and inventors can shape the world. Design features are the aspects of a product's design that the designer would like to emphasise, such as the use of a particular material or feature that makes the product easier to use or more durable. 	

Plastic is a harmful and wasteful material

because it takes thousands of years to

•

Annotated sketches and exploded

diagrams show specific parts of a design,

•

Decay can be prevented or delayed by

preservation methods, such as drying,

Design Tech	ADVENT TERM	trition				
Design Technology – Year 4 - Medium Term Planning – Food and Nutrition Design and make packaging for a healthy snack						
LESSON 4	LESSON 5	<u>LESSON 6</u>				
LEARNING INTENTION:	LEARNING INTENTION:	NG INTENTION:				
		v that testing a product can help evaluate cesses and identify the improvements.				
Aim: Build and apply a repertoire of knowledge understanding and skills in order to design and make high quality products for a wide range of users.	explain why it is healthy. of their Choose from a range of materials, showing an understanding of their different characteristics. making Aim: Aim:	y what has worked well and what aspects products could be improved, acting on yn suggestions and those of others when improvements a, evaluate and test their ideas and the work of others.				
	=	abulary:				
Healthy, packaging, taste, practicality.		tion, design criteria, evidence,				
 Recall & retrieval Decay can be prevented or delayed by preservation methods, such as drying, salting, pickling, canning, pasteurising, refrigerating or freezing the food. Plastic is a harmful and wasteful material because it takes thousands of years to break down. Food packaging is produced using a net, which is a 2-D piece of material that is folded and secured to make a 3-D shape. 	 Decay can be prevented or delayed by preservation methods, such as drying, salting, pickling, canning, pasteurising, refrigerating or freezing the food. Plastic is a harmful and wasteful material because it takes thousands of years to break down. Food packaging is produced using a net, which is a 2-D piece of material that is folded and secured to make a 3-D shape. 	A retrieval Decay can be prevented or delayed by preservation methods, such as drying, salting, pickling, canning, pasteurising, refrigerating or freezing the food. Plastic is a harmful and wasteful material because t takes thousands of years to break down. Food packaging is produced using a net, which is a 2-D piece of material that is folded and secured to make a 3-D shape. Healthy snacks include fresh or dried fruit and vegetables, nuts and seeds, rice cakes with low-fat				
a 2-D piece of material that is folded and secured	 Food packaging is produced using a net, which is a 2-D piece of material that is folded and secured to make a 3-D shape. Healthy snacks include fresh or dried fruit and vegetables, nuts and seeds, rice cakes with low- 	2-D piece of material that is make a 3-D shape. Healthy snacks include fresh				

		 Foods need packaging to keep them fresh, safe to eat and free from damage. Food packaging also provides nutritional information, 'use by' and 'best before' dates, and the materials and recyclability of the packaging.
Key Knowledge:	Key Knowledge:	Key Knowledge:
Child:	Child:	Child:
 Healthy snacks include fresh or dried fruit and vegetables, nuts and seeds, rice cakes with low-fat cream cheese, homemade popcorn or chopped vegetables with hummus. 	 Food packaging also provides nutritional information, 'use by' and 'best before' dates, and the materials and recyclability 	should be made. /Teacher:
 Teacher: Cooking techniques include baking, boiling, frying, grilling and roasting. A healthy packed lunch might include a brown or wholemeal bread sandwich 	 of the packaging. Different materials and components have a range of properties, making them suitable for different tasks. Teacher: 	 Evaluation can be done by considering whether the product does what it was designed to do, whether it has an attractive appearance, what changes were made during the making process and why the changes were made.
containing eggs, meat, fish or cheese, a piece of fresh fruit, a low-sugar yoghurt, rice cake or popcorn and a drink, such as water or semi-skimmed milk.	• It is important to select the correct material or component for the specific	

Cumulative Quiz. Retrieval Practice.