ACET Junior Academies

Scheme of Work for Design Technology

Y3 Food - Healthy and varied diet



About this unit: In this unit pupils will learn about the principles of a healthy and varied diet, linking back to food that was gathered and eaten during the Stone Age. They will investigate and evaluate a range of healthy eating products, considering taste, appearance, texture and smell. Pupils will learn to use a range of equipment and utensils to prepare ingredients and will follow a simple recipe to make a healthy eating product that combines foods collected by Hunter Gatherers. Children will design a healthy eating product for an intended user and purpose. They will apply their learning from the unit to make their product and will evaluate their completed products, judging the extent to which they have met the original design criteria. Final piece ideas: healthy fruit desserts e.g. berry crumble (Link History, Stone Age)

Unit structure

- 1. Investigate and Evaluate: What was food like in the Stone Age?
- 2. Focused Tasks: How are ingredients prepared and combined?
- 3. Designing: What could I make and how could I make it?
- 4. Making, Finishing and Evaluating: Can I make the product I designed?

Links to previous and future National Curriculum units

- KS1 Food Preparing fruit and vegetables
- UKS2 Food Celebrating culture and seasonality

1: Investigate and Evaluate: What was food like in the Stone Age?				
Links to previous learning	Knowledge	Skills, Concepts and Vocabulary:	Assessment criteria:	Curricular links:
Pupils will know some ways to prepare ingredients safely and hygienically. They will have some basic knowledge and understanding about healthy eating and The eatwell plate. Pupils will have used some equipment and utensils and prepared and combined ingredients to make a product.	Knowledge: Substantive knowledge: (What students should know) That foods can be grouped according to the Eatwell plate. The sensory properties of a range of food and ingredients Where different foods and ingredients are grown reared or caught Second order concepts: (What students should understand) Evaluation User Purpose Properties	Skills Begin to understand that food comes from the UK and wider world Begin to understand how a healthy diet is made up from a variety and balance of food and drink as depicted in The Eatwell Plate Know that food and drink provide energy for the body. Evaluate a range of products in terms of taste, smell, texture and appearance. Key Vocabulary/concepts: https://20353.stem.org.uk/Nuffield%20Glossary2/index.html Name of products and ingredients, texture, taste, sweet, sour, hot, spicy, smell, appearance, preference, greasy, cook, moist, fresh, savoury, grown, reared, caught, frozen, tinned, processed, seasonal, harvested, healthy/varied diet, evaluate, purpose, user	Can your children: Evaluate a range of products in terms of their taste, smell, texture and appearance using appropriate vocabulary? Understand that food is reared, caught or grown in the UK and the wider world? Know what makes up a healthy diet?	Horizontal: Science - Plants, nutrition PSHE - Healthy living Spoken Language - Ask relevant questions to extend knowledge and understanding. Develop technical and sensory vocabulary. History - Stone Age diet Vertical:

Suggested activities:	Resources:	Useful links:
Pupils could investigate the diet of Stone Age people. Link to the principles of	Range of relevant example	https://www.gov.uk/government/publications/th
a varied and healthy diet using The eatwell plate e.g. Which food groups do	foods to taste and evaluate	<u>e-eatwell-guide</u>
they belong to? E.g. (meat, fish, berries, fruit, grains, nuts, honey)		
Cary out sensory evaluations on a selection of stone age foods e.g. berries,		https://www.bbc.co.uk/bitesize/topics/zg94jxs/
apples, honey, nuts, grains. Record the results in a table. Use appropriate		resources/1
words to describe the taste, smell, texture and appearance and encourage		
pupils to consider how much the sensory characteristics affect their liking for		https://www.bbc.co.uk/bitesize/clips/ztr3cdm
the food.		
Look at shop bought products which consist of the above e.g. granola, cereal		http://www.ancientcraft.co.uk/Archaeology/stone
bars, snack bars, fruit crumbles. What ingredients are in the products? How		-age/stoneage_food.html
have ingredients been prepared? Find out how the ingredients used in the		
products are grown and harvested, reared, caught and processed e.g. Where		http://mrjennings.co.uk/teacher/DT/D&T%20Lo
and when are the ingredients grown/reared? How and why are they processed?		wer%20K52%20project%20sheets.pdf
How was this different to The Stone Age?		

2: Focused Tasks: How can ingredients be prepared and combined?				
Links to previous learning	Knowledge	Skills, Concepts and Vocabulary:	Assessment criteria:	Curricular links:
Pupils will have evaluated a range of products in terms of their taste, smell, texture and appearance. They will understand that food products are made for an intended user and will be able to talk about the needs and wants of the user. Pupils will know that food is reared, caught or grown and will know some ways that food is processed.	Substantive knowledge: (What students should know) That products are made by preparing and mixing ingredients. Know how to prepare food and ingredients to make products. Know about the ingredients in the products, and whether they have been grown, reared or caught. Know where the ingredients for their product come from.	Skills Begin to understand that food comes from the UK and wider world Begin to prepare and cook dishes, safely and hygienically. Use some of the following techniques to prepare food with increasing confidence: peeling, chopping, grating, slicing, kneading and mixing that food ingredients can be fresh, pre-cooked and processed	Can your children: Use a range of tools, utensils and techniques to prepare ingredients? Understand and follow safety and food hygiene procedures? Know about the ingredients to be used in the product?	Horizontal: Maths - Mass kg/g Science - plants; nutrition Geography - where ingredients come from Vertical:

	Key Vocabulary/concepts: Names of equipment, utensils and ingredients Hygiene, hygienic, edible, grown, reared, caught, harvested, slice, chop, grate, mix, knead, bake, bridge and claw,	
Suggested activities:	Resources:	Useful links:
Children could look at how food and ingredients were prepared during the Stone Age. e.g. how they ground down grains etc and techniques to prepare ingredients; How are these different to today? How is this different to preparing food hygienically today? Use an existing recipe to follow to make an example of the intended end product e.g. simple cereal bar or apple crumble. Demonstrate relevant techniques for children, e.g. the bridge and claw technique, grating, peeling, chopping, slicing, mixing, spreading, kneading and baking. Pupils work in groups to follow the recipe to practise the skills taught. Discuss basic food hygiene practices when handling food including the importance of following instructions to control risk e.g. What should we do before we work with food? Why is following instructions important?	Suitable equipment and utensils such as knives, peelers, graters, chopping boards, weighing scales, measuring jugs, bowls, baking trays, spoons,	https://www.warburtons.co.uk/downloads/teaching-resources/cooking-in-a-primary-school-classroom/Guide%20-%20How%20to%20teach%20food%20skills.pdf http://www.ancientcraft.co.uk/Archaeology/stone-age/stoneage_food.html http://mrjennings.co.uk/teacher/DT/D&T%20Lower%20KS2%20project%20sheets.pdf

3: Designing : What could I make.				
Links to previous	Knowledge	Skills, Concepts and	Assessment	Curricular links:
learning		Vocabulary:	criteria:	

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Pupils will have	Substantive knowledge:	Skills	Can your children:	Horizontal:
experienced using a	(What students should know)	Begin to describe the purpose	Develop ideas about the	Maths kg/g
range of techniques to	The sensory qualities of a range of food and	of their product	product they are going	Are and design - use
prepare ingredients.	ingredients.	 Consider the needs and wants 	to make based on the	drawing and
Pupils will be able to	That food and ingredients can be selected according	the user	needs of the user.	sketching skills to
talk about how and why	to their sensory qualities.	 Develop their own design 	Develop their own set of	develop and
different foods are	How to select ingredients to meet design criteria.	criteria and use to inform	design criteria and use	communicate ideas.
processed.	The order of which the product will be made.	their ideas	to inform their ideas.	Spoken language -
	·	• Through discussion, generate	Create annotated	participate in
		realistic ideas for an item,	sketches to communicate	discussion with
		considering its purpose and	ideas.	adults and peers to
		the needs of the user/s	Plan the main stages of a	develop and
		Communicate ideas through	recipe.	communicate ideas.
		producing drawings with		
		labels		Vertical:
		Understand that recipes can		
		be changed by adding or		
		taking away ingredients		
		3 , 3		
		Key Vocabulary/concepts:		
		Planning, design criteria,		
		purpose, user, annotated		
		sketch, recipe		
Suggested activities	:	Resources:	Useful links:	
Discuss the purpose of the	he products that the children will be designing, making	Storyboard	https://www.gov.uk/gover	nment/publications/th
	ne products will be for, e.g. Stone Age style party.	Balanced Diet wheel	e-eatwell-guide	
_	sign criteria. This could include criteria relating to	Sketching pencils		
	I diet e.g. What are the needs of the intended user?		https://frommybowl.com/	/healthy-berry-
	sider to make it part of a balanced diet? How do we		crumble/	<u> </u>
· ·	low could we make it appealing to eat?			
_	ty to engage in discussion and generate a range of		http://mrjennings.co.uk/to	eacher/DT/D&T%20Lo
realistic ideas.			wer%20KS2%20project%	
Ask pupils to record idea	s using labelled drawings.			
• •	choose one idea to follow through and create a design			
plan.	-			

Ask the children to consider the main stage in making the food product, including who will do what – pupils could produce a flowchart or storyboard to show the order and write their recipes.

show the order and write		(double leasen): Deady	Chardy Cask	
Links to previous learning	4: Making, Finishing and Evaluating Knowledge	Skills, Concepts and Vocabulary:	Assessment criteria:	Curricular links:
Children will have identified the product they are going to make. They will have a clear understanding of the purpose of the product and of needs and wants of the intended user. Pupils will have developed design criteria and will have planned the main stages of a recipe.	Substantive knowledge: (What students should know) Making and Finishing That food and ingredients need to be prepared and mixed to create products. A range of ways to prepare and combine ingredients. The importance of a balanced and varied diet. The sensory qualities of different food and ingredients. Evaluating That evaluations of ongoing work are essential to identify and rectify problems.	Skills Begin to prepare and cook dishes, safely and hygienically. Use some of the following techniques to prepare food with increasing confidence: peeling, chopping, grating, slicing, kneading and mixing Understand that recipes can be changed by adding or taking away ingredients Select from a range of tools, equipment and ingredients suitable for the task. Begin to use their design criteria to evaluate their product identifying both strengths and areas for development Consider how their product can be improved. Key Vocabulary/concepts: Ingredients (and names) tools, utensils (and names) prepare, combine, slice, peel, mix, grate, bake, bridge and claw, Finish/finishing, appearance,	Can your children: Use a range of tools, utensils and techniques to prepare ingredients? Understand and follow safety and food hygiene procedures? Know about the ingredients used in their product and explain why they were chosen? Evaluate ongoing work and the final product referring to design criteria. Judge the extent to which their product suits the intended purpose and needs of the user. Consider views of others when evaluating their product.	Horizontal: Spoken language - ask questions to develop knowledge and understanding. Give clear responses to questions. Consider the views of others. Writing - produce a written evaluation of the finished product using appropriate headings/ subheadings Vertical:

	appealing, evaluate, design criteria, intended user, purpose, improvements		
Suggested activities:	Resources:	Useful links:	
Make and Finish Give pupils the opportunity to revisit their recipes and recap the order in which they will make their food product. Pupils work in groups to collect the ingredients, tools and utensils required for their product and use their design plan and design criteria as an ongoing guide. Encourage the children to evaluate their developing products by referring to the design criteria. Encourage pupil to consider the finish of their product by referring to their design plan e.g. How will you present your product? How are you making it look appealing? Pupils complete their products and photograph. Evaluation (could be a separate lesson) Pupils evaluate their own final product against the intended purpose and user, reflecting on the design criteria previously agreed e.g. Does the product suit the purpose? Does it suit the intended user? Do the ingredients go well together? Have the ingredients been prepared using the best process? How has the product been presented? Does it look appealing? Is it an innovative design? Encourage pupils to consider improvements to their project e.g. Did anything not work well? How could the product be improved? Pupils take part in peer evaluation expressing opinions about others' work and taking into account what others think of their product when considering how the product might be improved. Pupils complete a written evaluation of their product.	Suitable equipment and utensils e.g. knives, chopping boards, weighing scales, measuring jugs, bowls, spoons, baking trays, Relevant ingredients	https://frommybowl.com/healthy-berry-crumble/ http://mrjennings.co.uk/teacher/DT/D&T%20Lower%20K52%20project%20sheets.pdf	