

Year Group – **5** 

Subject - Design and Technology

Portfields Primary School Medium Term Plan

Strand – Food

Topic – What Could be Healthier?

National Curriculum	Key Questions		Substantive Knowledge	Key Vocabulary	Real-Life Links
Use research and develop design criteria to	Do you like spaghetti bolognese? What do you like about it?		Understand that the ingredients used for a	Beef	RSPCA
inform the design of innovative, functional,	Which ingredients do you like in your bolognese?		dish can vary due to preference.	Boil	
appealing products that are fit for purpose,	Do we all like the same ingredients in our bolognese?			Chop	Ingredients and
nimed at particular individuals or groups.	What are your opinions of the cattle farm?		Know that bolognese originates from Italy.	Ethical	nutritional values on
	Do you think all cattle farms are like the example on the vide	20?		Fry	food packaging.
Generate, develop, model and communicate	What is different about these two bolognese sauces? Why?		Understand that beef is commonly used for	Ingredients Originate	
heir ideas through discussion, annotated	How could you improve this bolognese recipe?		bolognese.	Peel	NHS Eatwell Guide
ketches, cross-sectional and exploded	What have you done to make your recipe tastier?			Recipe	
liagrams, prototypes, pattern pieces and	What have you done to make your recipe healthier?		Understand the ethical implications of beef	RSPCA	
omputer-aided design.	How are you going to prepare your ingredients?		farming and why the RSPCA introduced	Sauce	
,	How are you going to cook your ingredients?		protection laws.	Vegetarian	
Select from and use a wider range of tools and	Do you like the taste of your bolognese sauce?				
equipment to perform practical tasks [for	What would you do differently next time?		Understand the importance of publishing the		
example, cutting, shaping, joining and		I Questions	ingredients and nutritional values on food		
finishing], accurately.			packaging.		
51, ,	Where did bolognese originate from?	What do the RSPCA believe animals should be protected			
Select from and use a wider range of materials	Italy	from?	Understand that the 'Eatwell Guide' shows the	Technical	Inventors and
and components, including construction		hunger and thirst	proportions of a balanced diet.	Vocabulary	Makers
naterials, textiles and ingredients, according	Does bolognese contain meat?	discomfort		Bolognese	Flakers
to their functional properties and aesthetic	In Italy, most Bolognese sauces are vegetarian. If meat is	• pain, injury and disease		Bridge and claw	
qualities.	added, it is usually beef which comes from cows.	not being able to behave normally		Cattle farming	
		• fear and distress		Eatwell guide	
Investigate and analyse a range of existing	What ingredients are typically in bolognese?		Disciplinary Knowledge	Nutritional value	
products.	Tomatoes, onion, celery, tomato puree, carrots, red wine	What is RDI (recommended daily intake)?	Recognise ingredients being used in a variety	RDI	
	vinegar, tinned tomatoes, parmesan cheese, bacon.	The amounts of each nutrient that should be consumed in	of forms (raw, whole, diced, peeled).		
Understand how key events and individuals in		one day. The amount of each nutrient in one portion of the			
design and technology have helped shape the	Do all people eat meat?	food product compared to the RDI is often shown on food	Analyse and compare the ingredients and		
world.	No. Vegetarians, vegans or people with a religious	labels as a colour-coded percentage.	nutritional values of supermarket bolognese		
	background (such as Hinduism) choose not to eat beef.		sauces.		
Understand and apply the principles of a	Others are okay with eating beef as long as the way the	How are ingredients arranged on a food label?			
healthy and varied diet.	meat is sourced is ethical.	Listed by quantity with the main ingredient first.	Adapt a given recipe using the 'Eatwell Guide'		
			to improve nutritional value to meet the target		
Prepare and cook a variety of predominantly	What does ethical mean?	What is the Eatwell Guide?	audience's needs.		
savoury dishes using a range of cooking	Something that is right in the moral sense - truthful, fair,	A guide to show you how much of what you eat should come			
techniques.	and honest.	from each food group.	Create a written recipe, including modified		
		Miller Market in the first data and always and the 10	ingredients, quantities and a method.		
Understand seasonality, and know where and	What is the RSPCA?	What is the bridge and claw method?			
now a variety of ingredients are grown,	The RSPCA (Royal Society for the Prevention of Cruelty to	A way of cutting food that allows the food to be held steady	Use an online tool to create a personalised		
reared, caught and processed.	Animals) were the first charity to introduce laws to protect	while fingers are kept away from the blade of the knife.	nutritional label.		
	animals. They work hard to ensure that all animals can live	Bridge = to cut food in half			
	free from pain and suffering.	Claw = to cut food into small pieces	Peel, chop, boil and fry ingredients with		
			increasing independence.	1	

## Term - Summer 1



		Lesson 1
<u>Flash</u>	iback Four	Learning Objectives
Last Year Name a toy that uses stored energy. e.g. wind-up toy, pull-back toy (e.g. slingshot car), toy with a spring	Last Topic Draw these bridges on your whiteboard in order from weakest to strongest: truss, arch, beam beam, arch, truss <b>Art</b> Name a warm tertiary colour. <i>Red-orange, yellow-orange, yellow-green</i>	Learning Objective LO to understand the ethical implications of cattle farming. Success Criteria I can describe the ingredients in a bolognese sauce. I understand that people choose to not eat meat for a variety of reasons. I can explain the RSPCA's role in animal farming.

Lesson 2			
Flash	nback Four	Learning Objectives	Star Knowledge
Last LessonWhat are the 5 things that the RSPCA believeanimals should be protected from?1. Hunger and thirst2. Discomfort3. Pain, injury and disease4. Inability to behave normally5. Fear and distress	Last Topic What is this piece of equipment called and how it used? A set square that is used for measuring and marking lengths and 45° and 90° angles.	Learning Objective LO to adapt a recipe using nutritional values. Success Criteria I understand why ingredients and nutritional values are published on food packaging. I can use the Eatwell Guide to create a balanced meal. I know how a recipe can be adapted to make it healthier. I know that the nutritional value of a recipe can change if you remove, substitute or add additional ingredients.	Ingredients and nutritional values are published on food packaging so people can make healthy choices as part of a balanced diet.
Last Year How are exploded diagrams useful? They show how a product can be assembled.	Art What colours might an artist use to create a calm atmosphere or mood? Blues, greens or purples.		

	Lesson 3		
Flashback Four		Learning Objectives	Star Knowledge
Last Lesson Why are ingredients and nutritional values published on food packaging? <i>So people can make healthy choices as part of a</i> <i>balanced diet.</i>	Last Topic What is this piece of equipment called and which parts can you hold safely? This is a glue gun. You can hold the handle and the trigger as they do not heat up.	Learning Objective LO to make a vegetarian bolognese sauce. Success Criteria I can prepare ingredients by peeling and chopping. I can use the bridge and claw method to cut food safely. I can cook ingredients by boiling and frying.	Peel, chop, boil and fry ingredients with increasing independence.
Last Year What mistake has been made? The orientation of the net has not been considered so the design will not match up when the 3D shape is made.	<b><u>Art</u></b> What painting technique might we use to paint clouds? <i>Smearing</i>		

Star Knowledge
Vegetarians, vegans or people with a religious background (such as Hinduism) choose not to eat beef. Others are okay with eating beef as long as the way the meat is sourced is ethical. The RSPCA introduced protection laws to monitor the ethics of beef farming.