<u>DT</u> Y5/6 Cooking & Nutrition Healthy Bolognaise	Concept	Enquiry Objective	Activities	Vocabulary	Resources
Week 1 & 2	Research	To understand where food comes from. I know that beef is the name of meat from cattle (cows) I know how beef is reared and processed I have an understanding of the ethical issues around the way in which cattle should be farmed.	Attention grabber         Ask the children whether they like spaghetti         Bolognese. The children work in pairs to write a list of ingredients that might be used to make spaghetti Bolognese. Have all the children got the same ingredients? Which are the same and which are different?         The children will design and make their own bolognese sauce.         Watch the video 'BBC - Spaghetti bolognese' on VideoLink, describing the dish and giving an insight as to where the main ingredient, beef, comes from (If you want you can stop at 3:51– this is when the video moves onto pasta!).         Ask the children where they think the other ingredients of the sauce might come from.         Main event         Watch the video: 'Tesco- Burly Beef' on VideoLink.         Ask the children:         •       What did they learn?         •       Do they think about the farm?         •       Do they think all farms are like this one?         Vegetarians, vegans or children with a religious background (such as Hinduism) may share differing points.         Depending on the way in which the clip sparked the children's interest, ask them to make one of the following posters:         Beef: From farm to fork       •         •	Beef Reared Processed Ethical Diet Ingredients Supermarket Farm	• Whiteboards and pens (per pair of pupils) • Access to the internet for research • Link: 'BBC- Spaghetti bolognaise' on VideoLink • Link: 'Tesco - Burly Beef' on VideoLink

			<ul> <li>4. To behave normally – by making sure animals have enough space, proper facilities and the company of other animals of their own kind.</li> <li>5. From fear and distress – by making sure their conditions and treatment avoid mental suffering.</li> <li>Remind children that a poster should be eyecatching and include simple key points that are easy to read, ie: not too much writing. This poster could be simply presented as a list of 'Dos' and 'Don'ts'.</li> <li>*Access to the internet would enable children to recap information from the video and research additional facts and figures.</li> <li>Key questions</li> <li>•What ingredients go into a bolognese?</li> <li>•Do you know where these ingredients come from?</li> <li>•How do cattle find their way onto our supermarket shelves as beef?</li> <li>•Do you think it is fair to eat meat? Why/Why not?</li> <li>•Is it important that cattle and other animals we eat are well looked after? Why?</li> <li>Wrapping up</li> <li>The children share their posters with the class, discuss what the children have found out about the way cattle can be kept and how they should be kept. Do the children have a view on free-range or organic products?</li> <li>* Ask children to begin collecting the following for 'Lesson 4: Mamma-mia what a tasty, healthy bolognese!':</li> <li>• Supermarket bolognese packets (low and high priced, jars and ready meals)</li> <li>• Empty jars (the bigger the better)</li> <li>*You will also need to ask parents to help during the making of the bolognese in 'Lesson 4' (unless you have access to an adequate number of adults within the school who can help).</li> </ul>		
Week 3 & 4	Research	To understand the term 'healthy'. I know what foods make up a balanced diet I know how a recipe can be adapted to make it healthier I can use keywords to research for alternative ingredients for a well-known dish Based on my research I can suggest healthy substitutions and additions to a recipe.	Attention grabber Choose two bolognese sauces for children to taste. Use two quite different examples, such as a standard supermarket brand and a more gourmet version or homemade sauce, with a variety of ingredients and packaging. Then: Heat both sauces and let the children taste them. Show the children the packaging, but do not let the children know which sauce belongs to which packaging. Ask the children their preference and why. Record their responses. The children decide which sauce they think is healthier. Discuss what 'healthier' means and why they came to that conclusion.	<ul> <li>Beef</li> <li>Reared</li> <li>Processed</li> <li>Ethical</li> <li>Diet</li> <li>Ingredients</li> <li>Supermarket</li> <li>Farm</li> <li>Balanced</li> </ul>	Whiteboards and pens (one per pupil) Two beef bolognese sauces for children to taste test. * If you have vegetarians in your class, also provide similar examples of bolognese sauces without beef. An enlarged photocopy of the nutritional value for each sauce you have bought or a photograph (one per pair of pupils) or display this

Reveal the packaging that each sauce carr would these examples influence their buyir decision? Why? Give the children photocopies of the nutriti	
decision? Why?	whiteboard
Give the children photoconies of the nutrit	Access to computers/tablets
Give the children photocopies of the nation	onal
values of each sauce or show them on your	
interactive whiteboard. Ask the children wh	
notice about the ingredients and nutritiona	Recipe Duniouis
•What values are different – by how much     •What might the significance of that difference	Duringt
• Compare the ingredients list – ingredients	
always listed by quantity, with the main ing	redient Recipe of fink. Due rood Lusy
put first.	spaghetti bolognese recipe'
Oiscuss the similarities and differences in	printed (one between each
ingredients and quantities – why might the	team)
Do the ingredients explain the differences i nutritional values?	Sheet on link: 'NHS- Eatwell
Children's opinions as to which sauce is hea	lthier guide'
may differ here, some may feel that a high	salt or
saturated fat content outweighs the benefit	
having the highest percentage of tomato. If	
that 'RDI' (Recommended Daily Intake) will included on the label next to each nutrition	
- ask the children what this refers to,	
Main event	
Research (15 minutes)	
The children work in table groups to invent	
different healthy adaptations of a basic bol recipe and ultimately make one of them in	
The children familiarise themselves with th	2
ingredients that might be found in differen	
bolognese recipes.	
Ask the children to work in pairs using a sea	
engine to look for recipes online using the 'unusual bolognese recipe', 'different bolog	
recipe', 'vegetarian bolognese recipe' and	
'alternative bolognese recipe'.	
The children make a note of any ingredient	
quantities that are noticeably different from	n recipe
to recipe.	
Ask the children to share any recipes that substitute, add or use very different amour	ts of
ingredients. Do the additions/variations for	
make the recipe more or less healthy?	
Plan (15 minutes)	
Divide children into their teams (two teams	
table) and give the children a copy of the si	
link: 'NHS- Eatwell guide' which shows a pla divided proportionally into the different for	
groups we should be eating per day.	
Create a definition of what a healthy meal	should
be and record and save this for the next less	son; for
example, 'A healthy meal should'	
Include at least three portions of vegetable	es (per
serving)	
Be made from whole ingredients     Have as little added saturated fat, added saturated f	altor
• nave as intre added saturated rat, added s chemicals in as possible	

			Discuss: •What foods can be added in abundance •Which foods are not healthy •Which foods won't compliment the other flavours of a bolognese sauce Give each team a copy of the recipe from link: 'BBC Food- Easy spaghetti bolognese recipe'. The children read the recipe and decide together on at least three adaptations they are going to make to the recipe to make it healthier. For example: •adding healthy ingredients •substituting ingredients •reducing the number of ingredients that are high in fat or salt In their separate table teams, and referring to the sheet on link: 'NHS- Eatwell guide', the children decide how they will make their recipe more healthy. The children consult the other team in		
			their table group to make sure that the adaptations they have chosen are not the same because each table needs two different recipes. When the children's amendments are finalised, each team records their new recipe ingredients, including quantities. Key questions •What ingredients did you expect to be included? •Are any of these ingredients surprising? •What might that ingredient add to the recipe? •How are the ingredients/quantities different/the same in the recipes you have found? •Is there a difference as to how you prepare or		
West 5	Dian		store the two products? •What might you add? •What might you remove? •How will 'X' change the sensory characteristics of the dish? •How might that alter the nutritional information of the dish? Wrapping up Ask both teams in each group to share their healthy adaptations with the class – do all pupils agree that the adaptations are for the better/healthier? Attention grabber	•Poof	Have ready
Week 5	Plan Design	To adapt a traditional recipe. I know that the nutritional value of a recipe can change if you remove, substitute or add additional ingredients I can calculate and compare two adapted bolognaise recipes using a nutritional calculator.	Attention grabber The children familiarise themselves with the two bolognese recipes that they came up with in 'Lesson 2: What could be healthier?'. The children will be making just one of these sauces in 'Lesson 4: Mama mia! What a tasty, healthy bolognese'; the healthier of the two recipes. Re-cap what it means for a recipe to be healthy – ask the children for the definition decided upon in 'Lesson 2: What does healthy look like?'.	<ul> <li>Beef</li> <li>Reared</li> <li>Processed</li> <li>Ethical</li> <li>Diet</li> <li>Ingredients</li> <li>Supermarket</li> <li>Farm</li> <li>Balanced</li> </ul>	Have ready •Whiteboards and pens (one per pupil) •Each group's ingredient list from 'Lesson 2: What does healthy look like?' •Access to computers or laptops to access the link: 'Very Well Fit - Nutrition Calculator'

	Show the children how to use the selector	
Based on this information I can decide	Show the children how to use the calculator on link: 'Very Well Fit- Nutrition Calculator' so that the	Optional: Access to a greater
which recipe is healthier	children can then work out the nutritional values of	number of computers or laptops
I can write an amended method for my	their two recipes.	for each group to type up their
recipe to incorporate the relevant changes	Ask the children: •In a nutritional table, which figures should be kept	recipe
to ingredients.	low and which can be higher?	• Paper and pens for groups to
	•What is our recommended daily intake?	handwrite their recipes
	•Why have you decided that your chosen sauce is	
	healthier?	Print
	• Did other members of your group disagree with your choice? Why?	•Recipe on link: 'BBC Food -
	Main event	Easy spaghetti bolognaise
		recipe' printed (one between
	Nutritional values (10 minutes)	each team)
	Each team will use their ingredient list from 'Lesson 2: What does healthy look like?', inputting the	•Sheet on link: 'NHS - Eatwell
	ingredients and finding out the nutritional values of	
	their recipes on the 'Nutrition Calculator'.	guide'
	Both teams download and print a copy of their	<ul> <li>Link: 'Very Well Fit - Nutrition</li> </ul>
	nutritional label and compare to decide which recipe is the healthiest.	Calculator' – printed per group
	This may cause some debate and ultimately require	
	an unbiased third opinion, but the one deemed	
	healthier is the one that the children will make in	
	'Lesson 4: Mama mia! What a tasty, healthy	
	bolognese'.	
	Recipe adaptation – Ingredients and method (20	
	minutes)	
	Each table knows which sauce they are going to make next lesson, the children write up the	
	ingredients and method of their recipe.	
	Give each pupil a copy of the recipe on link: 'BBC	
	Food - Easy spaghetti bolognese recipe'. The	
	children work as a table to amend the recipe –	
	taking away, substituting and adding ingredients from their recipes. You could copy and paste the	
	recipe into a Word document so the children can	
	digitally amend the method rather than creating it	
	from scratch.	
	If the children's bolognese is to be successful then they all need to be following the same method,	
	each should discuss the steps as a group before it is	
	recorded.	
	Extension: Each team should give their recipe a	
	name and come up with a brand name that	
	represents the values of their product. Wrapping up	
	Children share their team's final recipe adaptations	
	and explain why this is the healthier option.	
	Encourage children to feedback on the recipes in relation to aspects of taste and health.	
	Confirm with each group what their ingredient list	
	includes so that you can gather these ingredients	
	for making next lesson.	
	Ask children to continue collecting supermarket	
	bolognese packets (low and high priced) for next lesson.	

Most C	Make		Play the part of the Teacher video: Mamma mia!	Beef	Watch
Week 6	Make	To complete a food product	What a Healthy Bolognese! demonstrating the	Reared	•Teacher video: Mamma mia!
	Evaluate	I know how to avoid cross-contamination	basic method children will follow to make a bolognese sauce as described in the recipe on link:	Processed	What a healthy bolognaise!
		I can clean surfaces and equipment	'BBC Food - Easy spaghetti bolognese recipe'.	Ethical	Have ready
		hygienically.	During the video ask the children to refer to their	Diet	•Each group's final recipe
		I know how to hold and use equipment	own recipe method and stop the video at various points to ask them what they might do differently.		
		safely.	Draw the children's attention to:	Ingredients	(ingredients and method) from
			<ul> <li>The cutting of the onion</li> <li>Not mixing chopping boards (red for meat and</li> </ul>	Supermarket	'Lesson 3: Adapting and
			green for vegetables)	Farm	improving a recipe' (one per
			•How meat should be cooked properly (beef will go	Balanced	pupil)
			from red to a brown colour and should be hot all the way through not just on the outside)		•Each group's required
			Explain what is meant by cross-contamination:		ingredients for their recipes
			Cross-contamination is how bacteria can spread. It happens when liquid from raw meats or germs		•Access to a cooker hob
			from unclean objects touch cooked or ready-to-eat		•Cooking utensils:
			foods.		o Chopping boards (red
			It is very important to wash your hands before cooking, keep raw and cooked foods separate and		and green)
			use clean equipment for each raw or cooked food		o Peelers
			you prepare and handle. Do not use dirtied equipment across multiple foods. Germs that have		o Knives
			been passed onto cooked food that gets		o Pans
			consumed, could make a person ill with food poisoning.		o Wooden spoons
			poisoning.		o Graters
					o Garlic crushers
					•A collection of supermarket
					bolognese sauce packaging (low
					and high priced)
					•Empty, clean jars (one per pupil)
					•Thin card (for children to cut to
					size to fit their jars)
					•Each group's nutritional labels
					for their final recipe from
					'Lesson 3: Adapting an
					improving a recipe' –
					photocopied (one per pupil)
					*An adequate number of
					additional adult helpers (either
					parents or TAs)
					Print
					•Recipe on link: 'BBC Food- Easy
					spaghetti bolognese recipe'
					printed (one between each
					team)
					lealli)

			•Sheet on link: 'NHS- Eatwell guide'
Week 7	To complete a food product I can use equipment safely, including knives, hot pans and hobs I can carefully follow a method to make a recipe I know how to chop an onion I can design appealing packaging that reflects my recipe.	Attention grabber         Main event         Plan (10 minutes)         The children work together to prepare their adapted recipes. Encourage pupils to think about the jobs they need to do and divide these so that everyone has a task.         The children will need to prepare their working area, ingredients and their own personal hygiene before they begin.         Make pasta for the children to have with their sauce or let the children can take their bolognese sauce home in their jars.         Making (20 minutes)         You may want children to cook at separate times so when some groups are cooking, the rest of the class are making their bolognese will require close supervision by at least one adult per group given the use of hot pans and oil. Remind the children that they must be very careful and sensible and listen to the adult they are with. You may want children to work on each step of the method in pairs to avoid crowding.         The children some card and ask them to measure it and adjust the size as necessary so that it fits comfortably when wrapped around their jar (ask them to try to share an A4 piece to avoid waste). Using scrap paper, children complete a rough design of their bolognese label. The children should take inspiration from any bolognese packaging that has hopefully been brought in from home.         The children design a label that represents their bolognese sauce considering:         •       Colours used         •       Drawings of the ingredients         •       The healthy aspect         •       Any ethical considerations         •       Brand name, bra	

	Depending on what you choose to do with your end product, this time should include an opportunity for children to: • Taste their own sauce and reflect on how it turned out. • Consider what they would have done differently if working alone. • Experience external judgment or to give/sell their product to the local community. • Reflect on how healthy their sauce ended up.	
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