

# Year 4 Design and Technology: Food and Nutrition – Block F Is cheap food always worse for you?

- This block is set in the context of the CUSP Science unit 'Animals, including humans'.
- The outline and structure of the block is as follows:

Lesson 1	Lesson 2	Lesson 3	At the end of this	block, pupils will
Explicit teaching of culinary	Explicit teaching of culinary	Explicit teaching of culinary	Know:	Be able to:
techniques	techniques	techniques	That cheap processed food	Peel, grate and chop vegetables to
Evaluating	Evaluating	Evaluating	often contains	make economical,
outcomes	outcomes	outcomes	additives, salt and	tasty and healthy
			sugar, which makes it less healthy than	food
		make healthy fo ingredients. They w	ill start to consider	
Root vegetable rosti	Mexican pasties	Chickpea curry	how cheap process their diet and health	ed foods will affect in later life .

CUSP Design & Technology Long term sequence	Block A	Block B	Block C	Block D	Block E	Block F
Year 1	Mechanisms	Structures	Food and Nutrition	Understanding Materials	Textiles	Food and Nutrition
Year 2	Textiles	Food and Nutrition	Mechanisms	Understanding Materials	Food and Nutrition	Structures
Year 3	Textiles	Food and Nutrition	Mechanisms	Food and Nutrition	Systems	Structures
Year 4	Food and Nutrition	Mechanisms	Textiles	Structures	Electrical Systems	Food and Nutrition
Year 5	Food and Nutrition	Systems	Textiles	Mechanisms	Structures	Food and Nutrition
Year 6	Food and Nutrition	Mechanisms	Food and Nutrition	Structures	Electrical Systems	Textiles



# Point of reference: Y4 Food and Nutrition – Block F

Pupils will be able to:

 recognise that good nutrition keeps the body healthy, provides energy and helps the body to repair



- use the claw and bridge methods to cut food safely
- explain why ultra-processed food is unhealthy

#### **Nutrition Focus:**

Up to 60% of the UK diet is now made up of highly processed foods and the aim of the block is for pupils to learn how to make foods from scratch that are increasingly bought ready made. These types of food contain added sugars, salts and food additives, and lose much of their nutritional content during manufacture and storage. Many of these foods are also low in price, and for many low-income families this has meant it has become increasingly difficult to justify not buying them. Many ready-made foods and processed meats are now cheaper than fresh foods. They can be stored for longer and require minimal cooking skills. This block uses low-cost ingredients to make delicious savoury foods.

#### Links to Literature:

Which Food Will You Choose? by Claire Potter

#### Health and Safety:

This block requires pupils to use peelers, knives and hobs. Teachers should ensure that they follow their own school's risk assessments and policies for using the necessary materials and equipment. Pupils should be taught about how to use equipment and materials safely and responsibly as part of these lessons.

#### Food Hygiene:

Please ensure all foods when bought are correctly stored and at the appropriate temperature. All food made should be cooled before being refrigerated. All food should be taken home or consumed within three days. All the recipes are suitable to be eaten hot or cold. Please refer to your school's allergy register before starting this block.

Environmental Factors	Cultural Links
Most of the ingredients used are grown in the UK and have a low carbon footprint. The root vegetables are available for most of the year and the recipes make use of tinned foods which can often be better for the environment.	Pasties migrated to other countries when British miners plied their trade overseas. Spices were once treasured goods and fetched a huge price during the Age of Discovery. In fact, wars were fought over ingredients like nutmeg, such were their value at the time.



# Point of explanation: Y4 Food and Nutrition – Block F

Core Knowledge	Explanation
cheap	Cheap means to cost little money or to cost less than expected.
fusion	Fusion cooking is cooking that is a mixture of different styles.
texture	Texture is the way a surface, substance or piece of cloth feels when you touch it – for example, how rough, smooth, hard or soft it is.

Technical Vocabulary	Definition
shallow-fry	to cook in a small amount of oil or fat
shortening	butter, lard or fat used to make pastry or shortbread, resulting in a crumbly texture
fragrant	to have a pleasant or sweet smell

## Link to video: https://vimeo.com/682865957/88aa9b2858

- Explanation and demonstration of taught content
- Lesson by lesson guidance
- Exemplification of techniques and outcomes



## Supporting Recipe 1: Y4 Food and Nutrition – Block F

×	Lesson 1
Dish	Root vegetable rosti
Equipment	Graters Chopping boards Vegetable knives Mixing bowls Grater Tea towels
Ingredients	<ul> <li>Quantities for two pupils:</li> <li>1 medium potato</li> <li>½ carrot</li> <li>Small piece of celeriac</li> <li>Small piece of sweet potato</li> <li>Any other root vegetables</li> </ul>
Method	<ol> <li>Peel and then grate the root vegetables into a mixing bowl.</li> <li>Place the grated vegetables in a clean tea towel and pull the corners together to make a parcel.</li> <li>Twist the tea towel with both hands and squeeze out as much water as possible.</li> <li>Season the grated vegetables.</li> <li>Squeeze the grated vegetables together and shape into a pattie.</li> <li>Cook in a hot frying pan with a little olive oil for 2 – 3 minutes each side.</li> </ol>



## Supporting Recipe 2: Y4 Food and Nutrition – Block F

×	Lesson 2
Dish	Mexican pasties
Equipment	Chopping boards Vegetable knives Small mixing bowls Graters Table knife Scales Oven trays Pastry brush Measuring jugs
Ingredients	Quantities for two pupils:         150g cold butter or vegetarian block         300g plain flour         ½ tin sweetcorn         ½ tin chickpeas         1 tomato         20g cheese         Any other suitable vegetables
Method	<ol> <li>Cut the butter into cubes and place in a mixing bowl.</li> <li>Add the flour and, using your fingertips, rub the butter into the flour.</li> <li>Continue rubbing in until the mixture resembles breadcrumbs and shake the bowl occasionally to enable lumps to come to the top.</li> <li>Add a little cold water at a time and mix with a table knife.</li> <li>If the mixture is too wet, add a little flour. If it is really wet, start again.</li> <li>If the mixture is too dry, add a little water.</li> <li>Push the mixture together to form a dough, leaving the bowl clean.</li> <li>Wrap the dough in plastic wrap and refrigerate for at least 30 minutes.</li> <li>Whilst the mixture is chilling, make the filling and pre-heat the oven to 200°C.</li> <li>Place the pastry in between sheets of baking paper and roll out until the mixture is as thick as a pound coin.</li> <li>Using a small plate as a template, cut a circle from the pastry and fill one half with the mixture.</li> <li>Fold over the other half and seal.</li> <li>Crimp along the join and glaze the top with beaten egg.</li> <li>Place on a lined tray and bake for 15 – 20 minutes until golden brown and the bottom is cooked.</li> </ol>



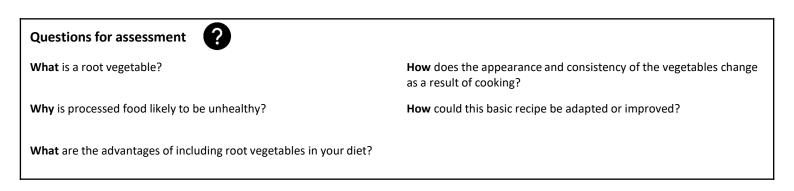
## Supporting Recipe 3: Y4 Food and Nutrition – Block F

×	Lesson 3
Dish	Chickpea curry
Equipment	Chopping boards Vegetable knives Small mixing bowls Graters Saucepans
Ingredients	Quantities for two pupils:         '½ onion         1 clove garlic         Thumb-sized piece of ginger         ½ tin of chopped tomatoes         ½ tin of chickpeas         Handful of green beans         1 tsp tomato puree         1 tsp garam masala         ½ tsp cumin         ½ tsp coriander         ½ tsp chilli powder         1 tsp cumin seeds
Method	<ol> <li>Slice the onion and finely chop the ginger and garlic.</li> <li>Measure out the spice mix and other ingredients.</li> <li>Fry the onion in a saucepan in 1 tbsp of oil until caramelised.</li> <li>Add cumin seeds, garlic and ginger.</li> <li>Cook until fragrant and then add the spices.</li> <li>Add 2 tsp water and then 1 tsp tomato puree.</li> <li>Cook for 1 minute, stirring often.</li> <li>Add the tinned tomatoes, chickpeas and any other vegetables.</li> <li>Cover and simmer for 15 – 20 minutes.</li> <li>Season and taste.</li> </ol>



## Point of delivery: Y4 Food and Nutrition – Block F

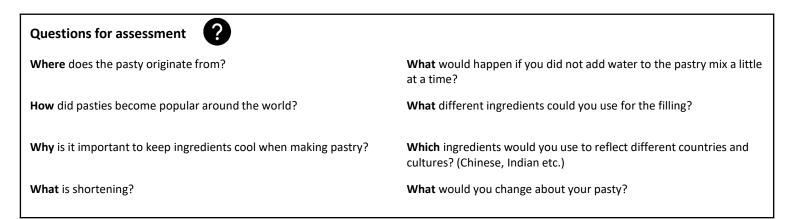
Revisiting prior learning	Taught content	Point of practice	Point of reflection
<ol> <li>Recognise that good nutrition keeps the body healthy, provides energy and helps the body to repair</li> <li>Chop, slice and grate vegetables</li> <li>Some types of food that are processed or ultra- processed are unhealthy because of the inclusion of additives, sugars and salt</li> </ol>	Compare the advantages of processed food with its disadvantages Explore ways of using low-cost fresh ingredients to make simple and appetising meals Evaluate outcomes	Introduce pupils to the key question for this block: <b>Is cheap</b> <b>food always worse for you?</b> Share and explain the key vocabulary from the Knowledge Note. Through questioning and discussion, elicit pupils' recall and understanding of the terms <i>processed</i> and <i>ultra-processed</i> (introduced in Year 2). Can pupils explain why processed food tends to be less healthy? Discuss some of the advantages of processed food: low cost, longer shelf life, easy and quick to prepare or cook. For these reasons, processed food is a popular and necessary choice for many families. Explain to pupils that, as an alternative to processed food, they will be exploring how low- cost ingredients can be used to make simple but nutritious and appetising meals. Show pupils a variety of root vegetables. Can pupils name them? Why are they called root vegetables? Explain the benefits of using root vegetables: they can be stored for long periods, the majority are grown in this country, and they contain nutrients such as vitamins. Point out, however, that potatoes have fewer vitamins than the other examples. Remind pupils how to peel and grate the vegetables safely and demonstrate how to squeeze out the excess water, explaining why it is important to do so. After forming the grated vegetables into patties, support pupils to pan fry them for a few minutes on each side. Prompt pupils to describe how the consistency and appearance of the patties change after cooking. Can pupils remember what the term caramelisation means? Encourage pupils to record the processes and their evaluations in their portfolios. Prompt pupils to suggest ways in which this basic recipe could be enhanced or adapted.	Can recall and explain previous learning Can identify a variety of root vegetables Can peel and grate vegetables safely Can describe how the consistency and appearance of food changes as a result of cooking Can state preferences about flavours and textures Can suggest ways in which a basic recipe could be enhanced or adapted using herbs, cheese or by changing the vegetables used





## Point of delivery: Y4 Food and Nutrition – Block F

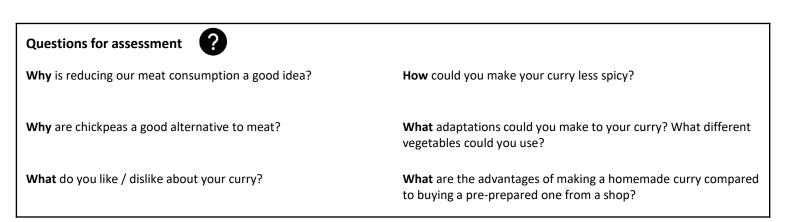
Revisiting prior learning	Taught content	Point of practice	Point of reflection
2. Compare the advantages of processed food with its disadvantages Explore ways of using low-cost fresh ingredients to make simple and appetising meals	Discover the origins of the pasty and how this traditional snack has been adapted in many other countries Compare the cost and nutritional content of pre-prepared and homemade food Make shortcrust pastry Define the term fusion Suggest ways in which a recipe could be adapted to reflect the cuisine of other countries Evaluate outcomes	Introduce this lesson by showing an image of a pasty. Can pupils identify this? Explain the origins of the pasty and how this is now popular worldwide due to the spread of Cornish miners and sailors from across Cornwall, and that variations can be found in Australia, Mexico, the United States, and elsewhere. Show some examples of pre-prepared and packaged pasties and explore the ingredients. Compare with the ingredients required to make the pasty themselves. Which version do pupils think might be healthier? Which might be cheaper? Demonstrate how to make shortcrust pastry, explaining the term shortening. Show pupils the ingredients for the filling, which have a Mexican influence, and define the word fusion, giving some examples. Support pupils as necessary to roll and shape the pastry once cooled and to fill with the vegetable mix. Coat the pasties with an egg wash and bake. Once cooked, pupils evaluate the outcomes. Encourage pupils to think about what they like or dislike about the pasty, what changes they would make if they made them again and what adaptations they could make to reflect the cuisine of other cultures. Pupils record the processes for making the pastry, along with their evaluative comments in their portfolios, and then complete Vocabulary Task 1.	Can explain what a pasty is and its origins Can identify some advantages and disadvantages of eating pre-prepared food Can follow a step by step process to make shortcrust pastry Can explain what fusion means Can identify ways in which a recipe could be changed to reflect the cuisine of other countries Can identify strengths and areas for development in their cooking





## Point of delivery: Y4 Food and Nutrition – Block F

Revisiting prior learning	Taught content	Point of practice	Point of reflection
<ul> <li>3. Compare the cost and nutritional content of pre-prepared and homemade food</li> <li>Explore ways of using low-cost fresh ingredients to make simple and appetising meals</li> <li>Some types of food that are processed or ultraprocessed are unhealthy because of the inclusion of additives, sugars and salt</li> </ul>	Explore reasons why meat consumption is high in this country and the advantages of reducing this consumption Identify ingredients that provide protein which can serve as a suitable alternative to meat Evaluate outcomes and suggest ways in which a curry could be adapted	Recap the learning from the previous two lessons and revisit the key question for the block: <b>Is cheap food always worse for you?</b> Explain that there are many types of food which are bought pre-prepared that are not only quite expensive, but are also less healthy due to the additives, sugars and extra salt they often contain. Identify curry as a good example of this. Explain to pupils that chicken tikka masala is the nation's favourite curry. Can pupils identify where this meal originates from? Do they eat curry? Do pupils know how much one pre- prepared curry meal costs? How much does it cost to have a curry in a restaurant? Explain to pupils that they will be making a chickpea curry and show them the ingredients they will be using. Through discussion and questioning, establish the approximate cost of making this dish and compare this to the cost of buying a curry from a supermarket. Point out that chickpeas can be used as a suitable alternative to meat due to their high protein content and discuss the health, environmental and cost benefits of reducing consumption of meat. Demonstrate how to prepare the vegetables by slicing the onion, dicing or grating the garlic and ginger, and halving the beans. Introduce the range of spices. Are pupils familiar with any of these? Allow pupils to smell the spices and prompt them to describe their aroma. Model the processes involved in making the curry and then support pupils as appropriate to follow each step, explaining the importance of caramelising the onions and cooking the spices before adding the remaining ingredients. Once cooked, allow pupils to sample and evaluate the outcome. Do they like the curry? What adaptations would they make? How could they make it less / more spicy? Could they add different vegetables next time? Prompt pupils to record their evaluative comments in their portfolios and then complete Vocabulary Task 2.	Can explain the advantages of making a curry rather than buying a pre-prepared one Can explain the benefits of reducing meat consumption Can use a range of techniques to prepare and cook vegetables with accuracy and confidence Can use appropriate vocabulary to explain processes and describe aromas, flavours and textures Can suggest ways in which their curry could be adapted, such as by using different vegetables, increasing the quantities of specific spices or using natural yoghurt for its cooling effect





## Oracy and Vocabulary: Y4 Food and Nutrition – Block F Task 1: The key to good pastry is to keep the ingredients cold. Order these adjectives according to their strength of meaning. glacial chilly freezing cool frosty arctic **Exploration**: Why must you use What happens if you use too your fingertips to rub say much or too little pressure when the fat into the flour rolling and shaping pastry? when making pastry? Task 2: Work with a partner to answer these questions about the food you have made. $\mathrm{Fr}$ Explain the processes involved in making a chickpea curry. say Which of the meals you have made do you prefer and why? What would you do differently if you made the curry again? Give reasons for your answer. Explain to your partner what you have learnt in these lessons and answer the key question, giving reasons for your answer. Is cheap food always worse for you? Intellectual content and design copyright © 2021 Unity Schools Partnership (Curriculum structure and principles © Greenfields Education Ltd) USPA

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# Vocabulary: Y4 Food and Nutrition – Block F

OWN-it	Analyse 🔊	KNOW-it Defi	ine 📕
<b>Change</b> the word <i>fragrant</i> to a no	oun.	Tick true or false.	
fragrant		Shortening is used to make pastry pliab	le. ]
Underline the root word.		Tick the most accurate definition of fragram	nt.
infusion		<ul> <li>foul-smelling</li> <li>sweet-smelling</li> <li>odourless</li> </ul>	
<b>Underline</b> the root word.		<b>Write</b> a definition of the word <i>texture</i> .	
shortening			
LINK-it	Connect ๙	USE-it Use in contex	t ک
<b>Write</b> a word that means the opp <i>textured</i> .	osite of	<b>Tick</b> the box if the word <i>cheap</i> has been us correctly in this sentence.	ed
		The coat was so cheap, he had to save up f months to be able to afford it.	for
Write two different words that moopposite of <i>shallow</i> . 1 2		Write a sentence including these words: fusion combine different	
Write one synonym and one anto word <i>cheap</i> .	nym of the	<b>Use</b> the word <i>fragrant</i> in a sentence.	
antonym			
synonym			



# Knowledge Note: Y4 Food and Nutrition – Block F

Year 4: Food and Nutrition Is cheap food always worse for you?



#### Core content:

Learn how to make healthy food from low-cost ingredients.

Consider how cheap processed foods will affect health in later life.

#### Technical vocabulary:

**Cheap** — to cost little money or to cost less than expected.

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**Fusion** – cooking that is a mixture of different styles.



**Texture** — the way a surface, substance or piece of cloth feels when you touch it.

**Shallow-fry** — to cook in a small amount of oil or fat.



**Shortening** – butter, lard or fat used to make pastry or shortbread, resulting in a crumbly texture.



Fragrant – to have a pleasant or sweet smell.

### **Connections**:



rubbing in



shaping

slicing

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