

Ingredient Cards

For GCSE AQA Food Preparation and Nutrition: Herbs and Spices

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Teacher's Introduction

This resource is designed to help you teach and discover the fascinating world of food we eat every day. Ingredient Cards are written with in mind the students who have chosen the challenge of studying the new subject – AQA GCSE Food Preparation and Nutrition.

What it covers

This part of Ingredient Cards introduces carefully chosen food ingredients – some to represent British cuisine and some to introduce world foods. The resource comprises 22 Herbs and Spices sheets and seven Task sheets.

How to use this resource

This resource covers all aspects of the new AQA GCSE specification for Food Preparation and Nutrition and is designed to increase the knowledge, improve the skills, arouse the curiosity and the trigger creativity of those using it.

Each Ingredient Card is dedicated to one ingredient. You can print and laminate these so that they can be safely used in the kitchen, without the risk of staining or damaging them.

- What is It? Briefly describes what part of a plant a given herb or spice comes from, and provides some trivia to make it more interesting for the student.
- **Common Cuisines**. This part indicates where a given ingredient comes from and where it is usually used in the world.
- **Nutritional Information**. Contains data about macro- and micronutrients present in a given food ingredient, both in 100 g and in a portion or piece, to help evaluate the nutritional value of the dishes made using it. It is presented in the form of a table, containing information about macro- and micronutrients as required by the AQA GCSE specification. If there is a '-' it means that there is no data available about the given nutrient. If there is a '0' it means that the ingredient does not contain the given nutrient.

IMPORTANT: Please note that herbs and spices do not contain any cholesterol; therefore, it is not indicated separately on the Ingredient Cards.

Please bear in mind that nutritional data is estimated, and may differ depending on the variety, growth conditions, storage conditions and any processing applied to the food (e.g. freezing, pickling, drying, canning or juicing).

Please remember that herbs and spices shouldn't be treated as significant sources of macronutrients due to the small amount consumed as part of a balanced diet, but they are a good source of certain micronutrients, antioxidants and essential oils.

- Health Benefits. Indicates the health benefits of consuming the given food ingredient, with special attention to
 vitamins, minerals, unsaturated fats, protein, phytosterols, naturally occurring antioxidants and essential oils
 (where applicable).
- Allergy and Health Risks. Points out the main health hazards relating to the consumption of a given food
 ingredient, including the risk of an allergic reaction.
- Alternatives. Contains a list of other food products which can be used instead of the described ingredient in case of shortage, health conditions or other reasons why the original ingredient cannot be used.
- Cooking Uses. A catalogue of culinary uses of a given food ingredient. Indicates whether it can be eaten raw or cooked, and whether there are any special requirements for cooking or preparation (where applicable). It also lists the kinds of dish in which the ingredient can be used, in order to fully appreciate its features and value.
- **Storage**. Conditions in which to store given product in order to preserve its nutritional value, colour, texture and flavour.

The herbs and spices are combined into small groups, and each group is followed by a **Task sheet** focused on the given ingredients. The purpose of each Task sheet is to check students' knowledge and encourage them to research more information, as well as experiment with the ingredient and discover its potential in cooking. Each task has been assigned a reference number to help cover the whole spectrum of the AQA GCSE Food Preparation and Nutrition specification. Simply copy one Task sheet per student for them to work on either during the lesson or at home. There are also exemplary answers to help you assess your students' progress and determine more challenging exercises which require more effort.

The nutritional data is, in most cases, based on the United States Department of Agriculture database and McCance and Widdowson Composition of Foods database for Great Britain.

Where appropriate, other sources of information have been used, such as FODMAPer application issued by Monash University and label information for products most popular in Great Britain.

Specification Specific Information

The Ingredient Cards contain a wide range of information, including data about vitamins and minerals. Please note that the nutritional values supplied do not always reflect the requirements of the AQA GCSE specification for Food Preparation and Nutrition, as they provide additional data on potassium and magnesium.

We believe that the additional information provided will broaden the students' knowledge and improve their understanding of how nutrients work together in the human body.

However, there is no need for students to focus on the vitamins or minerals not covered by the specification. The following table indicates which vitamins and minerals the AQA specification covers.

Minerals			
Calcium	✓		
Iron		✓	
Sodium		✓	
Fluoride		✓	
lodine		✓	
Phosphorus		✓	
Potassium			
Magnesium			
Vitamins			
	Vitamin A	✓	
Fat soluble	Vitamin D	✓	
rat soluble	Vitamin E	✓	
	Vitamin K	✓	
	Vitamin B1 (Thiamine)	✓	
	Vitamin B2 (Riboflavin)	✓	
Motorcoluble	Vitamin B3 (Niacin)	✓	
Water soluble	Vitamin B9 (Folic acid)	✓	
	Vitamin B12 (Cobalamin)	✓	
	Vitamin C (Ascorbic acid)	✓	

September 2017

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 resulting from minor specification changes, suggestions from teachers and peer reviews, or occasional errors reported by customers

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1. GINGER



What is It?

Edible rhizome of a yellow-flowering plant growing natu rainforests of South Asia. Thomas a young ginger root some fibres may day lo ് ഉം വ്നല, making it more dif Ginger rhiz a Coulany have many small 'branches' grow rosi de chanight make it difficult to peel.

Common The

eristic of Indian cuisine (ginger-garlic paste is used Ginger is cha in many recipes), Chinese cuisine (used in sauces and stews, as well as in folk medicine) and Japanese cuisine (pickled ginger is often added to sushi). It was imported to Europe around the fourteenth century, and gained a well-earned appreciation.

Stora Fresh gir cool plac can wrap and store

Nutritional Information:

These values may vary. Information shown is for fresh ginger.

Nutritic

Health Benefits:

Despite the fact that it con minerals, ginger provides gingerols – essential oils re flavo. They stimulate pro sv 🖫 Yovang easier – this is 🖟 nom lack of saliva or a sor reduce nausea and preven seasickness or morning sic minimising cold and flu sy in potassium, which is an i

Allergy and Health Risks: Ginger may be an irritant,

Alte:

To fresh ginger:

Myoga – aka Japanese gin are edible Galang I (finger root) – sp⊕

diseases, stomach ulcers o

Powdered ginger may causs

ાં∈ l ginger:spice, ground cinnamon

Cooking Uses:

- Chop or grate to add to
- Grate fresh ginger to us curries
- **Dehydrate** to make a po stews, curries and soups
- **Pickle** to use with sushi,
- **Grate** to add to desserts crumble

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Nutritional value: Per 1 tsp Per 100 g typical value (2g)**Energy** 80 kcal 2 kcal Macronutrients Fat 0.75 g 0.01 g 0.203 g 0.004 a Saturated fats 0.003 Monounsaturated fats 0.154 q 0.154 g O.() <u>y</u> Polyunsaturated fats **Carbohydrates** 0.36 g Starch **6**9// 0.128 g (polysacq Sugars (m 1.7 q 0.03 g disaccharides **Fibre** 2.0 g 0 g **Protein** 1.82 g 0.04 g Micronutrients Vitamin A 0 0 Vitamin D 0 Vitamin E 0.26 mg 0.01 mg Vitamin K 0 0.1 mcg Vitamin B1 (Thiamine) 0.025 mg 0 Vitamin B2 (Riboflavin) 0.001 mg 0.034 mg Vitamin B3 (Niacin) 0.750 mg 0.015 mg **Folate** 11 mcg 0 0 Vitamin B12 Vitamin C (Ascorbic 5 mg acid) Calcium 0 mg Iron 0.01 mg ... mg Sodium (S 0 mg 13 mg Fluoride **lodine Phosphorus** 34 mg 1 mg **Potassium** 415 mg 8 mg Magnesium 43 mg 1 mg **g** – grams, **mg** – milligrams, **mcg** – micrograms



What is It?

Type of pepper with a high amount of capsaicin – a su really hot and spicy. Capsaicin is also the main compo The hotness of pepper is mea leasn SHU (Scoville he Scoville scale. Calarine respertis a widely used variety

Common Cuisines:

Chilli peppe To La Lanc to Europe by Christopher Columbus, and were sia by Portuguese traders. Chilli peppers are the main ingredient of mexican chilli – thick, spicy stew – and Mole poblano sauce. Sambal is a chilli paste popular in Indonesia.

9 S S co

Nutritional Information:

These values may vary. Information shown is for red chilli pepper (averaae).

Nutrition

Health Benefits:

Chilli peppers are rich in vit may provide some relief from well as alleviate inflammation in treating diabetic neuropal caused by high blood suga tha つい and helps to mitig

Allergy and Health Risks:

High amounts of chilli may of the taste buds on the to irritant, so may cause a rash side effects. It is also dange to mucous membranes, sud to avoid hot spices in gastr stomach ulcers or irritable

Alte

For milder hotness, use q pepper, garlic powder or b For milder flavour and co seeds, coriander seeds, tur

Country Uses:

- Always remember to r
- **Chop** to add to sauce marinades, scrambled stir-fries – even to bre
- **Blend** into sambal pass and marinades
- **Infuse** in an oil to use
- 101 **Stuff** with cream chee

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Per 1 **Nutritional value:** Per 100 g pepper typical value (45 g) 40 kcal 18 kcal **Energy** Macronutrients 0.2 g Fat 0.44 g Saturated fats 0.042 g 0.019 g Monounsaturated fats 0.024 g 0.011 g Polyunsaturated fats 0.239 q 0.108 7 ÷ 96) , 8.81 g **Carbohydrates** Starch (polysaccharides) Sugars (ra 5.3 g 2.38 g disacchar **Fibre** 1.5 q 0.7 q **Protein** 1.87 g 0.84 g Micronutrients Vitamin A 48 mcg 2 mcg Vitamin D 0 0 Vitamin E 0.69 mg 0.31 mg Vitamin K 14 mcg 6.3 mcg Vitamin B1 (Thiamine) 0.072 mg 0.032 mg Vitamin B2 (Riboflavin) 0.086 mg 0.039 mg Vitamin B3 (Niacin) 1.244 mg 0.56 mg **Folate** 23 mcg 10 mcg Vitamin B12 Vitamin C (Ascorbic 143.7 mg 64.7 mg acid) Em Calcium 14 mg Iron 1.02 a .40 mg Sodium (Salt) 4 mg S 119 **Fluoride lodine** 0 **Phosphorus** 43 mg 19 mg **Potassium** 322 mg 145 mg

23 mg

g – grams, **mg** – milligrams, **mcg** – micrograms

10 mg

Magnesium

3. TURMERIC



Common.

What is It?

Intensely yellow powder made from ginger-like resouth Asia. Also known as Indian saffron, it is a key and folk medicine Turney is the main compound Fresh turne, in all trains hands and clothing. The above in a train body if eaten together with black and compound in it).

In India and sia, turmeric is used in both savoury and sweet dishes, as both a spice and a colouring agent. It was introduced to Europe in the thirteenth century. It is also popular in Lebanese cuisine, where it is used to prepare cakes called *stouf*.

Sto

Nutritional Information:

These values may vary. Information is shown for turmeric powder.

Nutritional value: typical value	Per 100 g	Per 1 tsp (3 g)
Energy	312 kcal	9 kcal
Macror	nutrients	
Fat	3.25 g	0.1 g
Saturated fats	1.838 g	0.055 g
Monounsaturated fats	0.0449 g	0.013 g
Polyunsaturated fats	0.756 g	0.023 g
Carbohydrates	67.14 g	2024
Starch (polysaccharides)		
Sugars (modern concordado)	1 g	0.1 g
Fibre Education	22.7 g	0.7 g
Protein	9.7 g	0.3 g
Micron	utrients	
Vitamin A	0	0
Vitamin D	0	0
Vitamin E	4.43 mg	0.13 mg
Vitamin K	13.4 mcg	0.4 mcg
Vitamin B1 (Thiamine)	0.058g	0.002 mg
Vitamin B2 (Riboflavin)	0.150 mg	0.004 mg
Vitamin B3 (Niacin)	1.35 mg	0.041 mg
Folate	20 mcg	1 mcg
Vitamin B12	0	0
Vitamin C (Ascorbic acid)	0.7 mg	0
Calcium	168 mg	5 215
Iron	55 m; 🥒	, us mg
Sodium (Salt)	2 11/2	1 mg
Fluoride 79		-
lodine 109	-	-
Phosphorus	299 mg	9 mg
Potassium	2,080 mg	62 mg
Magnesium	208 mg	6 mg
g – grams, mg – milligrams, mcg – micrograms		

Nutritiona

Health Benefits:

The main pigment of turmer antioxidant. Turmeric is used relieving agent in arthritis and effective in treating depression, which ourses.

Allergy and Health Risks:

Turmeric may cause an aller applied to the skin. Excessive cause nausea, diarrhoea, hyp pressure) and increased mupregnant women and during

Alte

For colour, try using saffron **For colour and flavour**, reppowder.

Cooking Uses:

- Ac 1 ground turmeric sauces, soups and stew
- Add ground turmeric agent to roasted vege
- Mel Add to marinades for
 - Use ground turmeric desserts, e.g. sponge, creams, yogurts
 - Use grated fresh turn yellow curry

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4. PAPRIKA



What is It?

Bright red powder made from dried sweet peppers peppers. It is usually quite mild in flavour, but the avarieties of pepper maken a elit spicier.

Common Cuisines:

Although peppers and the following of wexico, paprika became very popular in Hungary. To the second to prepare many Hungarian national dishes such as papilisation and korozott.

Store Store Conta

Nutritional Information:

These values may vary.

Nutritional value: typical value	Per 100 g	Per 1 tsp (2.3 g)
Energy	282 kcal	6 kcal
Macron	utrients	
Fat	12.89 g	0.3 g
Saturated fats	2.14 g	0.049 g
Monounsaturated fats	1.695 g	0.039 g
Polyunsaturated fats	7.766 g	0.179 g
Carbohydrates	53.99 g	1.24 g
Starch (polysaccharides)	-	-
Sugars (mono- and disaccharides)	10.34 g	(24)
Fibre	,	0.8 g
Protein 79	14.14 g	0.33 g
Edication Micron	utrients	
Vitamin A	2,463 mcg	57 mcg
Vitamin D	0	0
Vitamin E	29.1 mg	0.67 mg
Vitamin K	80.3 mcg	1.8 mcg
Vitamin B1 (Thiamine)	0.33 mg	0.008 mg
Vitamin B2 (Riboflavin)	1.23 mg	0.028 mg
Vitamin B3 (Niacin)	10.06 mg	0.231 mg
Folate	49 mcg	1 mcg
Vitamin B12	0	0
Vitamin C (Ascorbic acid)	0.9 mg	0
Calcium	229 mg	5 mg
Iron	21.14 mg	0.49 1
Sodium (Salt)	68 mg	(im _i)
Fluoride		2 -
lodine	! <u> </u>	-
Phosphoru 7	314 mg	7 mg
Potassium Education	2,280 mg	52 mg
Magnesium	178 mg	4 mg
g – grams, mg – milligrams, mcg – micrograms		

Nutritiona

Health Benefits:

Paprika is very rich in vitamin Azeaxanthin, all of which support membranes. It provides vitamin antioxidant, and Niacin, necessis also very rich in vitamin K, was prevents bleeding, and phytostelevels in the blood. High amoun health about pod pressure, and make the body pressure and the body pressure the body pressure the body pressure that the body pressure that the body pressure the b

Allergy and Health Risks:

Make sure you choose a milder ulcers or bowel diseases, as capa worsen the symptoms.

Alte

To make food more spicy and For a milder taste, use ancho For a similar taste in some recip powder.

Cooking Uses:

- Add ground paprika to
 - Sprinkle on top of dishes
- Li ground paprika to general ground paprika ground paprika ground paprika ground paprika ground grou
- Stir into marinades, espec
- Add powder to minced sausages
- Use as a colouring ageist
 - Sprinkle on top of roast
- Mix with cottage cheese spread
 - Add as a colourant and other dips

SPECIION COPY



GINGER, CHILLI, TURMERIC AND PAPRIKA

1. Research and list various kinds of pepper on the diagram below, orde to the hottest. One has been done for you. [Skill 1, 3.3.2.4, 3.5.2]

Mildest (least spicy) 3,500 SHU List five recipes which use fresh ginger. [3.7] 1. 2. 3. 4. 5. Prepare your own curry powder.

- - Research the ingredients (both what o't search how much) i)
 - Draw an image of the equipment of will use, and label it.
 - iii) Assess what would in the hearth outcomes of using such a spice.
 - Compare you fy powder to one available on the market. Are the

Secretal Control		
i)	Ingredients	needed:

Ingredient	How much?

Health out a ses of this spice include (remember health outcomes

• • • •	

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ii)

iv) Comparison with curry powder on the market:

	Curry po
My curry powder	Brand:
	1 **

4. Althoughenilli is most popular in Mexican cuisine, it is also used in other cuisines in which the use of chilli is popular. [3.5.2]

1.

2.



Research the conditions required for growing ginger, list the countries in and assess whether or not ginger could be cultivated in the United Kings research in the form of a leaflet or a poster.





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5. BLACK PEPPER



What is It?

Seeds of Piper nigrum, a tropical climber with pea-sized oils and alkaloids, responsible for a pecific taste and are different kinds of peo; er nav in green, pink and white.

Common Cuisines:

The spice of the distribution of the spice of the distribution of the spice of the distribution of the spice of the spice

Nutritional Information:

These values may vary.

Nutritional value: typical value	Per 100 g	Per 1 tsp (2.5 g)
Energy	251 kcal	6 kcal
Macron	utrients	
Fat	3.26 g	0.07 g
Saturated fats	1.392 g	0.032 g
Monounsaturated fats	0.739 g	0.017 g
Polyunsaturated fats	0.998 g	0.023 g
Carbohydrates	63.95 g	1.47 g
Starch (polysaccharides)	- 	
Sugars (mono- and disacchari	T. 4 % - 1	0.01 g
Fibre Education	25.3 g	0.6 g
Protein	10.39 g	0.24 g
Micron	utrients	
Vitamin A	27 mcg	1 mcg
Vitamin D	0	0
Vitamin E	1.04 mg	0.02 mg
Vitamin K	163.7 mcg	3.8 mcg
Vitamin B1 (Thiamine)	0.108 mg	0.002 mg
Vitamin B2 (Riboflavin)	0.180 mg	0.004 mg
Vitamin B3 (Niacin)	1.143 mg	0.026 mg
Folate	17 mcg	0 mcg
Vitamin B12	0	0
Vitamin C (Ascorbic acid)	0	0
Calcium	443 mg	(1979/
Iron	S = 2 = m,	0.22 mg
Sodium (Salt)	∟mg	0 mg
Fluoride	34.2 mcg	0.8 mcg
lodine	-	-
Phosphorus	158 mg	4 mg
Potassium	1,329 mg	31 mg
Magnesium	171 mg	4 mg
g – grams, mg – milligrams, mcg – micrograms		

Nutritiona

Health Benefits:

Black peppercorn is rich in fluoride. It contains many a (2 mg in each teaspoon!), v functioning of the cardioval piperine – an alkaloid which tasts is udies show that piperfective than separately. Prof gastric juices and enhandalso helps to relax muscles and lowers blood pressure content. Peppercorn oil make g. on painful joints and makes.

Allergy and Health Risks:

Black pepper oil can irritate when applied directly to the performance of some medi increasing the risk of side e

Alte

For the spicy, hot sensation horses lish, mustard or chill or avour, replace with homogram, coriander, carawa

Cooking Uses:

- Use whole, crushed as sauces, stews, salads, as
- Crush or grind to use
- Add whole pepperco
- Freshly ground pepp and is a kind of univers
- **©** Grind or crush to add

SPECHON COPY



6. FENUGREEK



What is It?

Small, round yellow seeds, usually used whole. Also, be used in cooking.

Common Cuisines

Fenugreek pcpular in Indian, Jewish and Arabic cuisines. In Egypt, fenugreek is to make pita bread. Jews mix fenugreek with lemon juice and other ingredients to obtain traditional dip called *hilbeh*, eaten during Rosh Hashanah.

Nutritional Information:

These values may vary.

,		
Nutritional value: typical value	Per 100 g seeds	Per 1 tsp (4 g)
Energy	323 kcal	12 kcal
Macron	utrients	
Fat	6.41 g	0.24 g
Saturated fats	1.46 g	0.054 g
Monounsaturated fats	-	-
Polyunsaturated fats	-	-
Carbohydrates	58.35 g	2.16 ი
Starch (polysaccharides)	-	
Sugars (mono- and disacchar		-
Fibre Education	24.6 g	0.9 g
Protein	23 g	0.85 g
Micron	utrients	
Vitamin A	3 mcg	0 mcg
Vitamin D	0	0
Vitamin E	-	-
Vitamin K	-	-
Vitamin B1 (Thiamine)	0.322 mg	0.012 mg
Vitamin B2 (Riboflavin)	0.366 mg	0.014 mg
Vitamin B3 (Niacin)	1.64 mg	0.061 mg
Folate	57 mcg	2 mcg
Vitamin B12	0	0
Vitamin C (Ascorbic acid)	3 mg	0.1 mg
Calcium	176 mg	7, 7
Iron	33.53 mg/	1 Marg
Sodium (Salt)	2337	2 mg
Fluoride		-
lodine og og	0	0
Phosphorus	296 mg	11 mg
Potassium	770 mg	28 mg
Magnesium	191 mg	7 mg

Nutritional

Health Benefits:

Fenugreek is rich in calcium and proper growth and development selenium – an important micromanticarcinogenic properties. A provides 5 mg pf phytosterols cardiovascular diseases. Fenugration in increases in provides and constipation in the proventing obesity and diabetes sugar and support insulin production.

Allergy and Health Risks:

Eating large amounts of fenuges to smell sweet, a bit like maple scontractions in pregnant womes Allergies to fenugreek are not wash, breathlessness or fainting sugar levels to dangerous levels

Alte

For similar shape, size and co For smell and sweetness, try For aroma, replace with fennel Instead of fresh fenugreek leav For color, use cumin, coriance

Lucking Uses:

- Chop leaves and add to
- Add whole or ground serice dishes, bread, scone
- Grind seeds and mix was to form a paste which can other baked goods instead
- Use ground or whole see
- Grind seeds and leaves

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g - grams, mg - milligrams, mcg - micrograms

7. CHMIN



What is It?

Seeds similar in shape to caraway, but with a differenthe kitchen. This oriental are omes from the particle as a culinary, osition and medicinal plant.

Common Cuisines:

Although the commonly Commonly South Asian cuisine. It is also used in Spanish and Mexican cuisines, although not as often. It is especially popular in Brazil, Morocco and India.

Stora Store in a dark pi better to

grind the

Nutritional Information:

These values may vary.

Nutritional value: typical value	Per 100 g	Per 1 tsp (2 g)
Energy	375 kcal	8 kcal
	utrients	
Fat	22.27 g	0.47 g
Saturated fats	1.535 g	0.032 g
Monounsaturated fats	14.04 g	0.3 g
Polyunsaturated fats	3.3 g	0.07 g
Carbohydrates	44.24 g	0.93 ლ ქ
Starch (polysaccharides)	-	
Sugars (mono- and disacchar 19) \$ (0.05 g
Fibre Education	10.5 g	0.2 g
Protein	17.81 g	0.37 g
Micron	utrients	
Vitamin A	64 mcg	1 mcg
Vitamin D	0	0
Vitamin E	3.33 mg	0.07 mg
Vitamin K	5.4 mcg	0.1 mcg
Vitamin B1 (Thiamine)	0.628 mg	0.013 mg
Vitamin B2 (Riboflavin)	0.327 mg	0.007 mg
Vitamin B3 (Niacin)	4.58 mg	0.096 mg
Folate	10 mcg	0
Vitamin B12	0	0
Vitamin C (Ascorbic acid)	7.7 mg	0.2 mg
Calcium	931 mg	2 n)
Iron	66 r	4 mg
Sodium (Salt)	1.716	4 mg
Fluoride	7	~
lodine Education	0	0
Phosphorus	500 mg	10 mg
Potassium	1,788 mg	38 mg
Magnesium	366 mg	8 mg
g – grams, mg – milligrams, mcg – micrograms		

Nutrition

Health Benefits:

Cumin provides a lot of potential maintaining healthy blood pass zeaxanthin and lutein, impalso contains phytosterols, we cardiova cular disease by low reases diuresis and less, which improve digestrich in calcium, necessary for

Allergy and Health Risks:

May cause heartburn, wind sugar levels so may be dange patients undergoing surgery and more serious symptoms

Alter

For similar flavour, try the sativa (black cumin).
For similar look and textue

flavour, try caraway.

For similar aroma and spice coriander or chilli powder.

Coming Uses:

- **Stir** into curries, goula
- Mix into, or sprinkle bread and enchiladas
- **Infuse** in marinades, ϵ
- Infuse to improve the meats
- Improve the flavour fondue
- Simmer or steam in @



8. CARAWAY



What is It?

Also known as meridian fennel, caraway fruits (do nook like seeds) are light brown with an anise-like a resemble cumin, their and features and culinary different.

Common Cuisines:

Caraway is expally, which Eastern European cuisine, where it is used in many cabba decodishes, such as sauerkraut stew and soup, and in bread. Caraway is an added to harissa, a popular hot paste used in Arabic cuisine.

Nutritional Information:

These values may vary.

Nutritional value: typical value	Per 100 g	Per 1 tsp (2 g)
Energy	333 kcal	7 kcal
Macroi	nutrients	
Fat	14.59 g	0.31 g
Saturated fats	0.62 g	0.013 g
Monounsaturated fats	7.125 g	0.15 g
Polyunsaturated fats	3.272 g	0.069 g
Carbohydrates	49.9 g	1.05 g
Starch (polysaccharides)	-	-
Sugars (mono- and disaccharides)	0.64 g	(0.)
Fibre	5.9	0.8 g
Protein	19.77 g	0.42 g
Colon Micror	utrients	
Vitamin A	18 mcg	0
Vitamin D	0	0
Vitamin E	2.5 mg	0.05 mg
Vitamin K	0	0
Vitamin B1 (Thiamine)	0.383 mg	0.008 mg
Vitamin B2 (Riboflavin)	0.38 mg	0.008 mg
Vitamin B3 (Niacin)	3.606 mg	0.076 mg
Folate	10 mcg	0
Vitamin B12	0	0
Vitamin C (Ascorbic acid)	21 mg	0.4 mg
Calcium	689 mg	14 mg
Iron	16.23 mg	0.34 mg
Sodium (Salt)	17 mg	0
Fluoride	<u> </u>	ل کے یا کا
lodine	0 / /	<u> </u>
Phosphorus	1.8 g	12 mg
Potassium 19	1,351 mg	28 mg
Magnesiun	258 mg	5 mg
g – grams, mg – milligrams, m	ı cg – microgram	S

Nutrition

Health Benefits:

Caraway is rich in potassium they ensure proper circulal cardiovascular diseases. Camainly for its ability to preand to prevent constipation

All Jand Health Risks:

belching. High doses of car the liver and kidneys. It is be harmful for pregnant we supported by medical studies

Alte

For similar look and text aroma, use cumin.

For similar flavour, try are cardamom.

Cooking Uses:

- Stir into fat-rich dishes goose, duck, pork and
- Mix into high-fibre dis bage, such as bear sauerkraut soup and co
- 🖲 🛮 **Infuse** in marinades f
- Add to dough or spr muffins
- Slightly roast and sp
 - Mix into cheese fond



BLACK PEPPER, FENUGREEK, CUMIN AND CARAWA

1.		ck pepper is made by cooking and drying the unripe drupes of the ads of pepper made? [3.6.1.1, 3.6.2.1]
	Wł	nite pepper:
	Gre	een pepper:
		- Radication
	Kee	d pepper:
	Din	ık pepper:
		к реррег.
2.	Roa	asted fenugreek can be used as a substitute for coffee.
	i)	Can you think of any other plants which can be used instead?
	ii)	Explain why people might prefer to use of substitutes. How do example, in terms of flavor contains and nutritional value? [3233]
		Edication
3.	Cui	min is the second most popular spice in the world. What spice is the
4.	List	three herbs or spices which improve digestion and prevent bloating
	1.	
4	2.	
1	3. 	The state of the s
	Place flave	ension (3.53,3.7) e some cumin and caraway seeds in two bowls. Compare their appe our (remember to rinse out your mouth after each spice). Then descr two spices.

NORECITON CORY





What is It?

This spice is derived from the same tree as mace – inde of the tree, while mace is made from the covering of it. either as a whole seed, whickness and has to be grate light brown aromaticac volume fruit can also be

Common Cuisines:

In Indonesi In Indonesi In Indonesi In Indonesi In Indonesi Indone dishes. Nutricipy also be added to spice mixes such as curry powder.

Nutmeg is also quite popular in European cuisine, where it may be added to dishes such as cream of leek soup and apple tart.

Nutritional Information:

																١	I	U	ľ	1	1		Ì	1	ľ	l	C			1	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-	

Nutritional value: typical value	Per 100 g powder	Per 1 tsp (2.5 g)
Energy	525 kcal	12 kcal
Macror	nutrients	
Fat	36.31 g	0.8 g
Saturated fats	25.94 g	0.571 g
Monounsaturated fats	3.22 g	0.071 g
Polyunsaturated fats	0.35 g	0.008 g
Carbohydrates	49.29 g	1.08 a
Starch (polysaccharides)		
disacchar	ے وہ د ا ا	0.07 g
Fibre Editor	20.8 g	0.5 g
Protein	5.84 g	0.13 g
Micron	utrients	
Vitamin A	5 mcg	0
Vitamin D	0	0
Vitamin E	0	0
Vitamin K	0	0
Vitamin B1 (Thiamine)	0.346 mg	0.008 mg
Vitamin B2 (Riboflavin)	0.057 mg	0.001 mg
Vitamin B3 (Niacin)	1.299 mg	0.029 mg
Folate	76 mcg	2 mcg
Vitamin B12	0	0
Vitamin C (Ascorbic acid)	3 mg	0.1 mg
Calcium	184 mg	4.70
Iron	3.04 "3	1mg
Sodium (Salt) Fluoride	100	0 mg
lodine	0	0
Phosphorus	213 mg	5 mg
Potassium	350 mg	8 mg

Health Benefits:

Although nutmeg has very few rich in essential oils, responsibl It can be used as a mild sedative other essential oils, those prese anti-inflammatory – for that real combat bad breath. The oils also esas sur in the brain, increasing

Allergy and Health Risks:

Large doses of nutmeg may be although not enough data is av recommended to avoid nutmed also interact with some medicin or decreasing their effectiveness

Alte

For similar aroma, try garam r you're allergic to nutmeg because For similar aroma and colour around cloves.

Cooking Uses:

- Stir into soups (e.g. esp€ Incis), sauces, stews and 🚁 jn a little oil when m 🛭 ingredients
 - Infuse to make marinad
- Mix into, or sprinkle or pudding, and in beverage cider)
- Add to mashed potato, B
 - Improve the flavour of tortellini
 - Add to dough/batter for muffins, banana bread a **Spice up** meaty dishes s

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g – grams, **mg** – milligrams, **mcg** – micrograms

10. CLOVES



What is It?

Aromatic flower buds originating in Indonesia, resembails. Cloves contain an essential ill (called eugenol) painkiller and an antibiotic, and is used in dentistry in alleviate pain are left in terra.

Common Cuisines:

Although c'a per serv used in Indian cuisine (e.g. in garam masala spice powde are now used worldwide, e.g. in the making of gingerbreads, hot chocolate or sauces (such as Worcester sauce). Cloves are popularly used in both savoury and sweet dishes, including meat marinades, apple sauce and mulled wine.

Standard Whole Whole when

Nutritional Information:

These values may vary. Data shown is for ground cloves.

Nutritional value: typical value	Per 100 g	Per 1 tsp (2 g)					
Energy	274 kcal	6 kcal					
Macronutrients							
Fat	13 g	0.27 g					
Saturated fats	3.952 g	0.083 g					
Monounsaturated fats	1.393 g	0.029 g					
Polyunsaturated fats	3.606 g	0.076 g					
Carbohydrates	65.5 g	1/2					
Starch (polysaccharides)		0.05					
Sugars (m	3.4 g	0.05 g					
Fibre	34 g	0.7 g					
Protein	5.97 g	0.13 g					
Micror	utrients						
Vitamin A	8 mcg	0					
Vitamin D	0	0					
Vitamin E	8.82 mg	0.19 mg					
Vitamin K	141.8 mcg	3 mcg					
Vitamin B1 (Thiamine)	0.158 mg	0.003 mg					
Vitamin B2 (Riboflavin)	0.22 mg	0.005 mg					
Vitamin B3 (Niacin)	1.56 mg	0.033 mg					
Folate	25 mcg	1 mcg					
Vitamin B12							
Vitamin C (Ascorbic acid)	0.2 mg	0					
Calcium	632 mg	1 n ,					
Iron	11 8° - 5	.23 mg					
Sodium (Salt)	3/1/9	6 mg					
Fluoride 19	*	-					
Iodine	0	0					
Phosphorus	104 mg	2 mg					
Potassium	1,020 mg	21 mg					
Magnesium	259 mg	5 mg					
g – grams, mg – milligrams, r	•	-					

Nutrition

Health Benefits:

A teaspoonful of ground clockhealthy bowel movements, a blood clotting. It also provide needed for maintaining head for the nervous symptoses. Cloves contain phylower LDL cholesterol levels to prevent cardiovascular discontinuation.

Allergy and Health Risks:

Cloves can lower blood sugashould be used in moderation in cloves – eugenol – may can consumed in excess, and may

Alte

For similar aroma and warn or nutmeg.

Cooking Uses:

- whole or ground to
 - Grind or crush to use as red meat
 - Infuse whole or ground apples, plums, pears or r pumpkin, e.g. in pies, cru
 - Grind to add to chai (spanituse whole cloves who
 - gingerbread, as well as be Whole cloves stuck into pomander – mainly to give interesting ornament



11. CINNAMON



What is It?

Brown coloured bark of several tree species, usually in the Cinnamon is used in both savous and weet dishes.

Common Cuisines:

In Mexico, cip psily used in savoury dishes – usually stews made from lamb or chicken. Toa medicinal purposes.

Nutritional Information:

These values may vary.

M			1 333
Mit	tr	141	or
nu	11		VI 🕮
	• •		- 000

Health	Benefits	5:
Cinnan	non con	ta

nnamon contains a lot of 🛭 proanthocyanidins (a teaspo them!), effective in the prev diseases. It also provides ca and muscle performance) a provides almost 5% of the d adults Connamaldehyde in @ ாட் 🚉 rg, "vhich is beneficial 🗽 cardióvascular diseases.

Allergy and Health Risks:

A high amount of cinnamald especially dangerous in peop medication. Inhaling cinnamo Cinnamon may also cause an symptoms such as burning a

Alte

For similar texture, colour nutmeg or allspice

Cooking Uses:

- Grind or grate to use in
 - Grind or grate to use w ್ರಾ bouleh and tagine
 - Add ground, or infuse sauces and stews
- Infuse whole when cool anglaise and custard
- Infuse whole, or grind fruit salads or poaching and rhubarb
 - **Grind** to add to crumble coffee (e.g. latte)
 - **Grind** to use as dusting
 - Whole cinnamon sticks trees and decorations

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Nutritional value: Per 1 tsp Per 100 g (2.5 g) typical value 6 kcal **Energy** 247 kcal **Macronutrients** Fat 1.24 g 0.03 g 0.345 g Saturated fats 0.009 g Monounsaturated fats 0.246 g 0.006 q Polyunsaturated fats 0.068 g 0.002 q **Carbohydrates** 80.59 g 2.10 g Starch (polysaccharides) Sugars (mono- and 0.06 g disacchar Fibre 53.1 g 1.4 g Protein 0.1 g 4 g Micronutrients Vitamin A 0 15 mcg Vitamin D Vitamin E 2.32 mg 0.06 mg Vitamin K 31.2 mcg 0.8 mcg Vitamin B1 (Thiamine) 0.022 ma 0.001 ma Vitamin B2 (Riboflavin) 0.041 mg 0.001 mg Vitamin B3 (Niacin) 1.33 mg 0.03 mg **Folate** 6 mcg Vitamin B12 0 Vitamin C (Ascorbic 3.8 mg 0.1 mg acid) Calcium 1,002 mg 2 (n.) Iron e 22 % 0.22 mg Sodium (Salt) 0 : mg Fluoride **lodine** 0 0 **Phosphorus** 64 mg 2 mg **Potassium** 431 mg 11 mg Magnesium 60 mg 2 mg g – grams, mg – milligrams, mcg – micrograms

12. VANILLA EXTRACT



What is It?

Fruits of the vanilla orchid flowers, which are dark brown are multiple tiny seeds inside. The some roused to produce v aromatic, dark brown liquid use "I many recipes. Today the manually – the 50' er 100 oved from one flower to another productive cost y and time-consuming. This makes vanilla s is fitted world -saffron being the most expensive.

Common Cuisines:

Although vanilla originated in South America, it is now used worldwide in the manufacture of countless sweets and desserts, chocolates, sauces and beverages. It is also commonly used in the cosmetic industry.

Sto Stor cont prese

Nutritional Information:

These values may vary.

Nutritional value: typical value	Per 1 tsp vanilla extract (4 g)	Per 1 vanilla pod
Energy	12 kcal	10 kcal
Macronuti	rients	
Fat	0	0.3 g
Saturated fats	<u> </u>	<u> </u>
Monounsaturated fats	- //26	- / /
Polyunsaturated fats		-
Carbohydrates	0.ع3 g	1.7 g
Starch (p. 120 par 1.s)	77	~
Sugars (m Education id	0.53 g	0.24 g
disaccharides)	_	_
Fibre	0	1.32 g
Protein	0	0.14 g
Micronutr	ients	
Vitamin A	0	-
Vitamin D	0	-
Vitamin E	0	-
Vitamin K	0	-
Vitamin B1 (Thiamine)	0	-
Vitamin B2 (Riboflavin)	0.04 mg	-
Vitamin B3 (Niacin)	0.018 mg	-
Folic Acid	0	-
Vitamin B12	0	-
Vitamin C (Ascorbic acid)	0	- /
Calcium	0	
Iron	nor ma	
Sodium (Salt)	10 / - / - / - / - / - / - / - / - / - /	0.7 mg
Fluoride	r -	
lodine	-	-
Phosphorus	0	-
Potassium	6 mg	-
Magnesium	1 mg	-
Alcohol	1.4 g	-
g – grams, mg – milligrams, mcg -	- micrograms	

Nutrition

Health Benefits:

Vanilla contains some amo carcinogenesis (the format reduce inflammation. Altho wc ່ ເ a mild tranquiliser ar 🔊 ja, not its health bene 🛚 in vanilla) also has a mild p

Allergy and Health Risks:

Vanilla extract contains a l avoided in dishes for little are not cooked, as the alc

Alte:

To substitute for colour syrup, almond extract, run To substitute the aroma, aromatised sugar available

Cooking Uses:

- V'hole pod is used i င္းffee) and in mulled aromatise sugar for
- **Seeds** are used in b€ sauces (such as crèm biscuits (such as ging



NUTMEG, CLOVES, CINNAMON AND VANILLA

Although nutmeg is very popular around the world, different countries
Research other names for nutmeg, which you can find in oriental shops
travelling abroad. List at least five by labelling the map below (one has



- 2. Prepare your own five-spice powder.
 - i) List the ingredients you used.
 - ii) Draw and label the kitchen equipmer chi cassary to prepare the five
 - iii) Compare your spice with conversion is available on the market and

19 i) Ing	redients
Edicator nat I need?	How much?
	l l
100	

NSPECION COPY



iii) Comparison

	My five-spice powder	bra
Main ingredient		
79 the		
Colour		
Aroma		
Texture		
Taste		
Other feet 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ocess of vanilla production. How does v	anilla pr

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environment? [3.6.1.1, 3.6.1.2, 3.6.2.1]	
	•••
	•••
Education 200	



Research where cinnamon is grown, and then shade the producer cou



Extension

Prepare a cream soup using one large potato, one last, one carrot and obtain a smooth texture and then pour into a sarate bowls. Now a որ ...nents the dish best. taste panel to find out which of the







13. THYME



What is It?

Thyme is an evergreen herb with tiny, needle-like leaves. Bethyme can be used in cooking. The rich in essential oils folk medicine ingredient

Common Cuisines:

In the South forms part of bouquet garni – a bundle of aromatic her did in sauces, soups and other infusions. Thyme is also a part of herbes de Provence – a herbal mix especially popular in Mediterranean cuisine. In Italy, thyme is usually added to tomato sauce.

Sto Fresh dried, contai heat ar

Nutritional Information:

These values may vary. Data is shown for fresh thyme leaves.

Nutritional value: typical value	Per 100 g	Per 1 tsp (0.8 g)
Energy	101 kcal	1 kcal
Macro	nutrients	
Fat	1.68 g	0.01 g
Saturated fats	0.467 g	0.004 g
Monounsaturated fats	0.081 g	0.001 g
Polyunsaturated fats	0.532 g	0.004 g
Carbohydrates	24.45 g	0.2 ფ
Starch (polysaccharides)	-	
Sugars (mono- and disacchar 19	135	0.006 g
Fibre Education	14 g	0.1 g
Protein	5.56 g	0.04 g
Micro	nutrients	
Vitamin A	238 mcg	2 mcg
Vitamin D	0	0
Vitamin E	-	-
Vitamin K	-	-
Vitamin B1 (Thiamine)	0.048 mg	0
Vitamin B2 (Riboflavin)	0.471 mg	0.004 mg
Vitamin B3 (Niacin)	1.824 mg	0.015 mg
Folate	45 mcg	0
Vitamin B12	0	0
Vitamin C (Ascorbic acid)	160 mg	1.3 mg
Calcium	405 mg	(m)
Iron	17, - a	∂.14 mg
Sodium (Salt)	ny	0
Fluoride		-
lodine Education	-	-
Phosphorus	106 mg	1 mg
Potassium	609 mg	5 mg
Magnesium	160 mg	1 mg
g – grams, mg – milligrams, n	ncg – microgram	s

Nutrition

Health Benefits:

Fresh thyme is rich in beta eyesight and healthy skin especially important for the central nervous system, which concentration. Thyme is a more mune diseases and more provide relief from a caused by colds and flu. Therefore, it is used with mutton or pork.

Allergy and Health Risks:

Thyme may cause allergic allergic to celery or grass. tea) may decrease levels of down metabolism.

$\mathsf{Alt}\epsilon$

For similar aroma, try base For similar texture and a rosemary.

Cyking Uses:

 Use leaves and who e.g. for pork or mutt

- Sprinkle leaves on to aubergine), soups are
- Infuse rice dishes, rest fibre-rich dishes such stews (e.g. ratatouille)
- Add to dough for br
- Infuse to make aron

Stir into sauces, e.g.

ASPECTION COPY



14. BASIL



What is It?

Leafy herb with a prominent, an seed-like smell. Use bright green, but there are the jes with purple least has a different aron a, a data is worth trying each one plants are asset, and quite easy to grow.

Common Cuisines

Although b Characteristic of Italian cuisine, it is also popular ath East Asian cuisines such as Thai, Indonesian, Vietnamese and Malaysian.

Storage:

Wrap in a sheet in the fridge. Lea them with a thin freezing.

Nutritional Information:

These values may vary.

			Per 1
Nutritional value: typical value	Per 100 g fresh	Per 100 g dried	tsp dried (0.7 g)
Energy	23 kcal	233 kcal	2 kcal
N	/lacronutrient	:S	
Fat	0.64 g	4.07 g	0.03 g
Saturated fats	0.041 g	2.157 g	0.015 g
Monounsaturated fats	0.088 g	1.238 g	0.009 g
Polyunsaturated fats	0.389 g	0.498 g	0.003
Carbohydrates	2.65 g	47.75 c	g
Starch (polysaccharides)	- 		<i>7-</i> 2
Sugars (mone d disacchari		1.71 g	0.01 g
Fibre Education	1.6 g	37.7 g	0.3 g
Protein	3.15 g	22.98 g	0.16 g
ı	/licronutrient	S	
Vitamin A	264 mcg	37 mcg	0
Vitamin D	0	0	0
Vitamin E	0.8 mcg	10.7 mg	0.07 mg
Vitamin K	414.8 mcg	1714.5 mcg	12 mcg
Vitamin B1 (Thiamine)	0.034 mg	0.08 mg	0.001 mg
Vitamin B2 (Riboflavin)	0.076 mg	1.2 mg	0.008 mg
Vitamin B3 (Niacin)	0.902 mg	4.9 mg	0.034 mg
Folate	68 mcg	310 mcg	2 mcg
Vitamin B12	0	0	n (1)
Vitamin C (Ascorbic acid)	18 mg	0.8 mg	
Calcium	177 - (C)	_∠_+0 mg	16 mg
Iron	_ <u></u>	89.8 mg	0.63 mg
Sodium (Sal	4 mg	76 mg	1 mg
Fluoride	-	-	-
Iodine	0	0	0
Phosphorus	56 mg	274 mg	2 mg
Potassium	295 mg	2630 mg	18 mg
Magnesium	64 mg	711 mg	5 mg
g – grams, mg – milligrams,	mcg – microgra	ms	

Nutrition

Health Benefits:

For thousands of years, be and a medicine. That is be micronutrients, such as vipotassium and manganes chericals which can reduce blood, and, therefore disease. Its essential oils estomach ulcers and relievel blood sugar levels and in excellent source of potass used in low-sodium diets.

Allergy and Health Risks: Lowering blood sugar level people treated with insuling bleeding and bruising in drugs. As with many other only dangerous if basil is

Alte

For similar aroma, use free For colour and texture, to

Loking Uses:

- **Use fresh basil** as rice or pasta dishes
- Blend fresh basil
 - Use fresh or dried
 - Dried basil is used bread, scones and dumplings and springs
 - Chopped fresh bas and sorbets (e.g. le Infuse fresh or dris



15. TARRAGON (ESTRA



What is It?

Also known as estragon, tarragon is a green leafy herb Mediterranean countries. What are eresting about tarra stems can be cookε la a a s Latitute for asparagus. Ch cause num^L 1 ss e tongue.

Common Cuisina Tarragon is

pular in French cuisine, especially in chicken, fish and egg-based of the famous Béarnaise sauce.

5 F∞

pi⊘

Nutritional Information:

These values may vary.

Nutritional value: typical value	Per 100 g dried	Per 1 tsp (0.5 g)
Energy	295 kcal	2 kcal
Macron	utrients	
Fat	7.24 g	0.04 g
Saturated fats	1.881 g	0.011 g
Monounsaturated fats	0.474 g	0.003 g
Polyunsaturated fats	3.698 g	0.022 g
Carbohydrates	50.22 g	0.30 g
Starch (polysaccharides)	-	
Sugars (mono- and disaccharides))
Fibre 19	7.4 g	0
Protein	22.77 g	0.14 g
Micron	utrients	
Vitamin A	210 mcg	1 mcg
Vitamin D	0	0
Vitamin E	-	-
Vitamin K	-	-
Vitamin B1 (Thiamine)	0.251 mg	0.002 mg
Vitamin B2 (Riboflavin)	1.339 mg	0.008 mg
Vitamin B3 (Niacin)	8.950 mg	0.054 mg
Folate	274 mcg	2 mcg
Vitamin B12	0	0
Vitamin C (Ascorbic acid)	50 mg	0.3 mg
Calcium	1139 mg	7 nc
Iron	323 - 1	U.19 mg
Sodium (Salt)	my	0
Fluoride	-	-
lodine	0	0
Phosphorus	313 mg	2 mg
Potassium	3,020 mg	18 mg
Magnesium	347 mg	2 mg

Nutrition

Health Benefits:

For a herb, tarragon is exce vitamin B2, niacin and calci phytosterols – chemicals wh adhesion in the blood vesse diseases. Essential oils in tar improve digestion and prev essenti. oil – eugenol – is r ा ्रिकारen used in dentist criémicals) in tarragon lowe infusion can be drunk before The high level of potassium lower blood pressure, and r wine, for the so-called Frence

Allergy and Health Risks: The essential oils in tarrago

Alter

To substitute for fresh tar basil, or fennel or anise seed To substitute for dried tar thyme, oregano, basil or dill To substitute the flavour.

No ling Uses:

- Whole or chopped fr salads or as a garnish
- Use fresh or dried in fish
- Mix into bread dough
 - Infuse to make aroma for dressings and sauce
 - **Infuse** to make a sauce
 - Mix with butter to ma beans and carrots

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g – grams, **mg** – milligrams, **mcg** – micrograms

16. ROSEMARY



What is It?

Evergreen plant with needle-like leaves with a pine-like and white underneath. Rosemany stracts bees and, for important herb for planting of arc, and and gardens.

Common Cuisines:

As rosemary comes from the interranean region, it is especially popular in the part of sources Italy or Greece. It is often paired with garlic, thyme, wine gar. It often forms part of bouquet garni — a herbal mix added to soups and stews.

It sp ne arc use

Nutritional Information:

These values may vary.

Nutritional value: typical value	Per 100 g dried	Per 1 tsp (1.2 g)
Energy	331 kcal	4 kcal
Macron	utrients	
Fat	15.22 g	0.18 g
Saturated fats	7.371 g	0.088 g
Monounsaturated fats	3.014 g	0.036 g
Polyunsaturated fats	2.339 g	0.028 g
Carbohydrates	64.06 g	0.77 g
Starch (polysaccharides)	-	
Sugars (mono- and disaccharides)		
Fibre 19	42.6 g	0.5 g
Protein Editorio	4.88 g	0.06 g
Micron	utrients	
Vitamin A	156 mcg	2 mcg
Vitamin D	0	0
Vitamin E	-	-
Vitamin K	-	-
Vitamin B1 (Thiamine)	0.514 mg	0.006 mg
Vitamin B2 (Riboflavin)	0.428 mg	0.005 mg
Vitamin B3 (Niacin)	1 mg	0.012 mg
Folate	307 mcg	4 mcg
Vitamin B12		
Vitamin C (Ascorbic acid)	61.2 mg	0.7 mg
Calcium	1280 mg	15 7
Iron	29.25 r 🛒	nig nig
Sodium (Salt)	in Argina	1 mg
Fluoride		-
lodine 200 000	_	-
Phosphorus	70 mg	1 mg
Potassium	955 mg	11 mg
Magnesium	220 mg	3 mg
g – grams, mg – milligrams, m	ncg – microgram	S

Nutrition@

Health Benefits:

Rosemary is a rich source of case 15 mg of this mineral! It is also which help to prevent anaem manganese, necessary for containing nutrient levels rosemary is an important and of descripting many diseases we LDL cholesterol levels event cardiovascular disease prevent bloating and heartbuilt in the liver.

Allergy and Health Risks:

Ingesting large amounts of volume and pulmonary problems (fluid should be avoided by pregnant from hypertension, bowel or kind symptoms. It can also interfere

Alte

To provide similar texture as tarragon or summer savory.

To replace dried rosemary, to

Cooking Uses:

- Marinade or sprinkle on pork and game dishes
- Mix into mushrooms, to or egg dishes
- in Improve the flavour by bay leaf
- Stir into soups, especially
- Add to sauces and dress
- Use both sprigs and flo
- Aromatise meat by add charcoal when grilling



IHYME,	BASIL,	TARRAGON	AND	ROSEMAR
Thymo basil s	and tarrages	are used to prope	aro horh	os do Provenco mi
-	_	are used to prepa the other herbs us		
Often used in	riance). List	the other herbs u	seu to p	repare nerbes de l

			/	***************************************
Calculatione	••• Jial vi	alue of a pinch of	basil lea	ves weighing app
		,		5 5
Edda		Nutritional value:		
		typical value		Per pinch
	Energy	, ,		
	Fat			
	Saturate	ed fats		
	Monoui	nsaturated fats		
	Polyuns	aturated fats		
	Carbohyo	Irates		
	Sugars	mono- and disacch	arides)	
	Fibre			
	Protein			
	Vitamin /	\		
	Vitamin E			
	Vitamin I			
_	19 5 61 2	ા (Thiamine)		
790	Vitamin E	32 (Riboflavin)		
Edication	Vitamin I	33 (Niacin)		
	Folate			
	Vitamin ((Ascorbic acid)		
	Calcium			
	Iron			
	Sodium (Salt)		
	Phospho			
	Potassiur			
	Magnesiu	ım		



4. When is it better to use fresh herbs, and when is it better to use dried cooking, at the end, or only as a garnish on a plate? Justify your choice.

	ed
This is because	
Dried 79 s u.a be use	ed
This is because	

Extension (37.353)

Prepare your own green pesto. List the main ingredients, equipment and up a taste panel to compare your pesto with a commercially available per





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17. SAGE



What is It?

Sage is one of the most common herbs used in the U although it originated in the Moci terranean. It has a greyish leaves. Both freshow as and powder can be

Common Cuisines:

Sage is one of the End of the End

Stora Fresh le (change ground s cool place

Nutritional Information:

These values may vary. Data shown is for ground sage.

Nutritional value: typical value	Per 100 g powder	Per 1 tsp powder (0.7 g)
Energy	315 kcal	2 kcal
Macron	utrients	
Fat	12.75 g	0.09 g
Saturated fats	7.03 g	0.05 g
Monounsaturated fats	1.87 g	0.013 g
Polyunsaturated fats	1.76 g	0.01 g
Carbohydrates	60.73 g	0.43 a
Starch (polysaccharides)	-	k921
Sugars (mono- and disaccharing		0.01 g
Fibre Cotton	40.3 g	0.3 g
Protein	10.63 g	0.07 g
Micron	utrients	
Vitamin A	295 mcg	2 mcg
Vitamin D	0	0
Vitamin E	7.48 mg	0.05 mg
Vitamin K	1714 mcg	12 mcg
Vitamin B1 (Thiamine)	0.754 mg	0.005 mg
Vitamin B2 (Riboflavin)	0.336 mg	0.002 mg
Vitamin B3 (Niacin)	5.72 mg	0.04 mg
Folic Acid	274 mcg	2 mcg
Vitamin B12	0	0
Vitamin C (Ascorbic acid)	32.4 mg	0.2 mg
Calcium	1652 mg	12 mg
Iron	28.12 ma	+ 20 y =
Sodium (Salt)	11	_ mg
Fluoride		-
lodine 19	10	0
Phosphorus Common	91 mg	1 mg
Potassium	1,070 mg	7 mg
Magnesium	428 mg	3 mg

Nutrition

Health Benefits:

Sage is rich in calcium, vitan mostly used in food to improimproves appetite, and prevenues are used in the treatment leaf infusion can also be used symptoms of colds, flu and a secondary contains phytostems.

Allergy and Health Risks:

Excessive consumption of sin lactating women, so it's be breastfeeding. The leaves as psychoactive agent, which in excess. Sage may inhibit avoid it when treating anaes

Alte

For similar aroma and heal savory, marjoram or rosema

Cooking Uses:

- Marinade and sprink
 - Juk, goose or pork, at Mix into chicken and sausages
- **Sprinkle** on top of cr€
- Add to bread dough, peas dishes
- Add to potato purée, dishes
 - **Infuse** stews (such as and vegetable pâtés, and

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g – grams, **mg** – milligrams, **mcg** – micrograms

18. MINT



What is It?

Dark green leaves with a minty aroma. There are many kind peppermint and spearmint. The arc in f mint is very refresh

Common Cuisines:

Mint is a common ingrediated and sound the world, but its uses differ. In Morocco, migres a board to prepare a hot beverage on hot days. In England, military is commonly served with lamb. In the USA, mint is used to produce candles. In Eastern Europe, mint liquor is a popular remedy.

S Fi the air sur

Nutritional Information:

These values may vary.

Nutritional value: typical value	Per 100 g dried leaves	Per 100 g fresh leaves	
Energy	279 kcal	70 kcal	
Macron	utrients		
Fat	4.6 g	0.94 g	
Saturated fats	-	0.246 g	
Monounsaturated fats	-	0.033 g	
Polyunsaturated fats	-	0.508 g	
Carbohydrates	34.6 g	14.89 ¬	
Starch (polysaccharides)	0		
Sugars (mone, and disacchair 19		-	
Fibre Education	0	8 g	
Protein	24.8 g	3.8 g	
Micronutrients			
Vitamin A	0	212 mcg	
Vitamin D	0	0	
Vitamin E	0	5 mg	

Vitamin D	0	0
Vitamin E	0	5 mg
Vitamin K	0	0
Vitamin B1 (Thiamine)	0	0.08 mg
Vitamin B2 (Riboflavin)	0	0.266 mg
Vitamin B3 (Niacin)	0	1.706 mg
Folic Acid	0	114 mg
Vitamin B12	0	0
Vitamin C (Ascorbic	0	31 mg
acid)		
Calcium	1,370 mg	131/6
Iron		5.08 mg
Sodium (Salt)	i ji mgʻʻ	31 mg
Fluoride	_	_
lodine	-	-
Phosphorus	490 mg	75 mg
Potassium	1,924 mg	569 mg
Magnesium	602 mg	80 mg
g – grams, mg – milligrams, m	ı cg – microgram	s

Nutrition a

Health Benefits:

Although mint is quite rich in evitamin A and phytosterols, it is which provide many health be relieve stomach pains, nausea digestion). It relaxes the muscle gastrointestinal system. It incressimulates normal bowel move concern do in mint is menthol the amproms of flu, colds and the aromatherapy of headache important antioxidants necessarinflammation and cancer. Since can be used in low-sodium die

Allergy and Health Risks:

Excessive consumption of mint deep sleep, as well as redness both fresh and dried – aren't

Alter

For similar texture, colour are For aroma, replace with basil,

Cooking Uses:

- Add fresh, whole or chotea on hot, sunny de
 - Chop or blend to use in and other desserts, such
- Chop or blend to make (chicken, pork) and as pa
- Use whole or chopped watermelon, pineapple of smoothie
- Use fresh or dried in sa Stir dried into 'heavy', diffinade with beans and peas
 - Use fresh whole leaves

ECTION COPY



SAGE AND MINT - TASK SHE

1.	Sage is one of the essential herbs in British cuisine. What are the other		
2.	Mint sauce is tradition for Jed [3.7]	with roast lamb and mushy peas. Wh	
3.		ntroduced to Britain by the Romans. ght to Great Britain by the Romans. (
4.	herbs, such as min' a 🎧 🧓 🚜 You	trants and study their menus. List can choose the restaurants in your	
	online 19 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5		
	Restaurant	Dishes containing mint	
1			
[Extension (1621) Draw a diagram to show the produ eplaced with another herb?	ction process of sage Derby cheese.	

INSPECTION COPY



19. SAFFRON



What is It?

Saffron is the most expensive spice in the world (1 costs around £6, which is equivalent to £6,000 per l made from the dried stig. Son the saffron crocus colouring agent in floor anny a tiny pinch of saffro yellow tig hade.

Common Cuisines

Saffron is v. Les Julian North African, Asian and European cuisines. In Morocco, sa. s used in tajines, such as kefta tajine (meatballs in tomato sauce). In Iran, it is the indispensable ingredient of a national dish called chelow kabab. In France, it is used in a fish soup called bouillabaisse.

5 S W ar⊹

Nutritional Information:

These values may vary.

Nutritiona

Nutritional value: typical value	Per 100 g	Per 1 tsp (0.7 g)	
Energy	310 kcal	2 kcal	
Macron	utrients		
Fat	5.85 g	0.04 g	
Saturated fats	1.586 g	0.011 g	
Monounsaturated fats	0.429 g	0.003 g	
Polyunsaturated fats	2.067 g	0.014 g	
Carbohydrates	65.37 g	0.46 a 1	
Starch (polysaccharides)	-		
Sugars (mono- and		~	
disacchar 19			
Fibre Fibre	3.9 g	0	
Protein	11.43 g	0.08 g	
Micronutrients			

Monounsaturated rats	0.429 g	0.005 g
Polyunsaturated fats	2.067 g	0.014 g
Carbohydrates	65.37 g	0.46 ก 🔝 🛚 1
Starch	-	
(polysaccharides)		
Sugars (mono- and		~
disacchar 19		
Fibre Fibre	3.9 g	0
Protein	11.43 g	0.08 g
Micron	utrients	
Vitamin A	27 mcg	0
Vitamin D	0	0
Vitamin E	-	-
Vitamin K	-	-
Vitamin B1 (Thiamine)	0.115 mg	0.001 mg
Vitamin B2 (Riboflavin)	0.267 mg	0.002 mg
Vitamin B3 (Niacin)	1.46 mg	0.01 mg
Folate	93 mcg	1 mcg
Vitamin B12	0	0
Vitamin C (Ascorbic	80.8 mg	0.6 mg
acid)		
Calcium	111 mg	1 mg
Iron	11.10 mg	ina ry
Sodium (Salt)	2 2 3 2	i mg
Fluoride		_
lodine 🔑 💮	-	-
Phosphorus Education	252 mg	2 mg
Potassium	1,724 mg	12 mg
Magnesium	264 mg	2 mg
g – grams, mg – milligrams, m	cg – microgram:	s

Health Benefits:

Saffron is quite rich in pota being necessary for the prosystem and fertility. It is rick potent antioxidant, effective diabetes and cardiovascula colo :: S crocin – a pigmer an xigant and protects the source of potassium, can b for people with hypertension

Allergy and Health Risks:

Excessive use of saffron (ov headaches, drowsiness, loss doses of saffron may also b colouring of the skin and e 20 g may be lethal – althou expensive poison!

Alte

For colour, replace with saf For colour and flavour, try To obtain the sweetness of

Cuyang Uses:

- Add to colour beverage
- **Infuse** to make soups
- Mix in to colour rice d risotto, and with cous tabbouleh)
 - Add to colour bread,
- **Add** to dough to mak
 - **Mix** into desserts such milkshakes and yogur



SAFFRON - TASK SHEET

1.	Saffron is used to make saffron buns. Which part of Great Britain do sa else are similar treats made, and what are the differences between ther
2.	'Why is saffron so expensive?' Research and discuss the production pr
	7.09
1	
F i	Extension [3.3.1, 3.3.2, 3.7]
200000000000000000000000000000000000000	Saffron is used to obtain a golden colour in foods. Research ingredients obtain different colours in food products. What foods could you use the
	hem easily?
! .	
	Control of the second of the s

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20. MARJORAM



What is It?

Herb similar in appearance and flavour to oregano, original Turkey. Its leaves are cut and dried to o' tain the herb used

Common Cuisines:

Since marjoram aids digestic of the used with 'heavy', hard-to-digest dishes based on heavy', her regumes, as well as with fatty meats such as good the work and bacon. Marjoram is also an ingredient of herbes de Provence bal mixture characteristic of the South of France.

Sto Sto airi aro

in a

Nutritional Information:

These values may vary. Data shown is for dried marjoram leaves.

Nutritiona

Nutritional value: typical value	Per 100 g	Per 1 tsp (0.6 g)	
Energy	271 kcal	2 kcal	
Macronutrients			
Fat	7.04 g	0.04 g	
Saturated fats	0.529 g	0.003 g	
Monounsaturated fats	0.94 g	0.006 g	
Polyunsaturated fats	4.405 g	0.025 g	
Carbohydrates	60.56 g	0.36 g	
Starch	~	-	
(polysaccharides)		1	
Sugars (mono- and	4.09 g	່ 1 ການ ຄວາມ [
disaccharides)			
Fibre	. `i 3 a	0.2 g	

(polysaccharides)		
Sugars (mono- and disaccharides)	4.09 g	- ' fiz]
Fibre	્રિકે ઉ	0.2 g
Protein 199	12.66 g	0.08 g
Edicolo Micron	utrients	
Vitamin A	403 mcg	2 mcg
Vitamin D	0	0
Vitamin E	1.63 mg	0.01 mg
Vitamin K	621.7 mcg	3.7 mcg
Vitamin B1 (Thiamine)	0.289 mg	0.002 mg
Vitamin B2 (Riboflavin)	0.316 mg	0.002 mg
Vitamin B3 (Niacin)	4.120 mg	0.025 mg
Folate	274 mcg	2 mcg
Vitamin B12	0	0
Vitamin C (Ascorbic acid)	51.4 mg	0.3 mg
Calcium	1990 mg	12 mg
Iron	82.71 mg	050
Sodium (Salt)	77 mg	
Fluoride		<u> </u>
lodine		0
Phosphoru 69	306 mg	2 mg
Potassium	1,522 mg	9 mg

Health Benefits:

Marjoram is a source of vital and supports blood clotting lutein, which support proper marjoram prevent the accurate the arteries, lowering the attack. It contains some appropriate the accurate field in lammation. It enhances and, therefore, aids contains a source of vital and accurate the accurate the

Allergy and Health Risks:

There are no known side ef

Alte

For similar texture and fla For the aroma, try using the

Cooking Uses:

- Add into, or sprinkle containing beans, drie (e.g. soups, casseroles)
- Add into fat-rich disher goose, duck, pork, back
- Infuse to make maring in his inkle on top of roas infuse to make aromat dressings
- Infuse to aromatise of box, add garlic, marjo olive oil)
- Add into stuffing, e.g.
- Mix into, and sprinkles scones, muffins

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g - grams, mg - milligrams, mcg - micrograms

Magnesium

21. DILL



What is It?

Bright green, soft, needle-shaped leaves on long, hold the leaves, the flowers and seeds are also used in coc to the celery family, dill many the shidered an import

Common Cuisines:

Dill is a popular herb in Larope, Russia and Scandinavia, where it is used to flav in uses, from fish to pickles, to soups.

Nutritional information:

These values may vary.

, ,		
Nutritional value: typical value	Per 100 g fresh	Per pinch (five sprigs, 1 g)
Energy	43 kcal	0
Macron	utrients	
Fat	1.12 g	0.1 g
Saturated fats	0.06 g	0.001 g
Monounsaturated fats	0.802 g	0.008 g
Polyunsaturated fats	0.095 g	0.001 g
Carbohydrates	7.02 g	0.07 g
Starch (polysaccharides)	-	
Sugars (mono- and disaccharides)) W """
Fibre	2.1 g	0
Protein Edication	3.46 g	0.03 g
Micron	utrients	
Vitamin A	386 mcg	4 mcg
Vitamin D	0	0
Vitamin E	-	-
Vitamin K	-	-
Vitamin B1 (Thiamine)	0.058 mg	0.001 mg
Vitamin B2 (Riboflavin)	0.296 mg	0.003 mg
Vitamin B3 (Niacin)	1.57 mg	0.016 mg
Folate	150 mcg	2 mcg
Vitamin B12	0	0
Vitamin C (Ascorbic acid)	85 mg	0.8 mg
Calcium	208 mg	2 ma
Iron	6.59 mc	1 : 17 , 7.g
Sodium (Salt) Fluoride		1 mg -
lodine	0	0
Phosphorus Control	66 mg	1 mg
Potassium	738 mg	7 mg
Magnesium	55 mg	1 mg

Nutritiona

Health Benefits:

Although dill doesn't provide micronutrients, it is rich in and quercetin. They act as protecting the body from redown ageing. It aids digest dyspepsia (heartburn), low blood and helps to promote especially effective).

Dill is closely related to celepeople with a celery allergy

Alte

For similar texture, replace For the colour, use parsley For the aroma, try using free

Cooking Uses:

- Use whole fresh spring salads, soups, starters,
- **©** Chop fresh or use dri€
- **Use dried leaves and s**and seafood
- Chop finely fresh leaven ies, such as omelette pickles
- Add fresh or dried lease gherkins
- Chop fresh or use dries sauce, creamed horsers go nicely with fish, seaf
 - Sprinkle fresh on top cucumbers and potatoe
 - Add chopped fresh or such as soft white chees yogurt, cream and butt

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g - grams, mg - milligrams, mcg - micrograms

22. CORIANDER



What is It?

Also known a cilantro, coriander is a lemony herb sin Leaves and seeds are commonly used in cooking.

Common Cuisines:

Coriander is used in many 2 A 45 and Thai dishes. Chopped leaves are of a second and a second a second and a second a second and a second a second and a second a second and a second a second and a second a second and a second

Nutrition ormation:

These values may vary.

Nutritional value: typical value	Per 100 g fresh leaves	Per 100 g seeds
Energy	23 kcal	298 kcal
Macron	utrients	
Fat	0.52 g	17.77 g
Saturated fats	0.014 g	0.99 g
Monounsaturated fats	0.275 g	13.58 g
Polyunsaturated fats	0.04 g	1.75 g
Carbohydrates	3.67 g	54.99 g
Starch (polysaccharides)	-	-
Sugars (mono- and disaccharides)	0.87 g	
Fibre	. <u>, 'g</u>	41.9 g
Protein 19	2.13 g	12.37 g
Wicron	utrients	
Vitamin A	337 mcg	0
Vitamin D	0	0
Vitamin E	2.5 mg	0
Vitamin K	310 mcg	0
Vitamin B1 (Thiamine)	0.067 mg	0.239 mg
Vitamin B2 (Riboflavin)	0.162 mg	0.290 mg
Vitamin B3 (Niacin)	1.114 mg	2.130 mg
Folate	62 mcg	0
Vitamin B12	0	0
Vitamin C (Ascorbic acid)	27 mg	21 mg
Calcium	67 mg	70°, ×,
Iron	1.77 mg	,∴∡mg
Sodium (Salt)	4 0 /	35 mg
Fluoride 79		0
lodine	0	0
Phosphorus	48 mg	409 mg
Potassium	521 mg	1,267 mg
Magnesium	26 mg	330 mg

Storage:

Seeds should be (e.g. a jar) in a de in the fridge, wrap prevent them from

Nutrition

Health Benefits:

Coriander seeds are rich in lowering LDL levels in the bigroup B vitamins and moncalso rich in calcium, necessariand iron, important in red biseeds are very rich in fibre, bowel movements and for in

which improves blood clotter releasing energy from food polyphenols – antioxidants of cardiovascular diseases.

Allergy and Health Risks:

Both the seeds and leaves of rich in sodium, which may in

Since coriander is related to reactions.

Alter

For the lemony aroma, use Replace seeds with cumin or

Luking Uses:

- Seeds are used in hear pea soup) and meats (s
- Whole and ground see and pickles, added to
- Fresh leaves can be us and fish dishes main

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g – grams, mg – milligrams, mcg – micrograms

MARJORAM, DILL AND CORIANDER - T

1.	List	five recipes for traditional British dishes which use marjoram. [3.5.2]		
2.	\\/h	at borbs would you use in the following dishes? Justify your shoice		
۷.	What herbs would you use in the following dishes? Justify your choica) Split pea soup			
	u)			
	b)	Roasted bacon		
	c)	Salmon sashimi		
	d)	La 193 re hotpot		
	e)	Mashed potatoes		
	f)	Chicken curry		
	')			
1				
	Exte	ns 79		
F	repa	are ple tasting panel for fresh coriander and parsley. Assess the		
- -	eave	s, their taste and their aroma. Can they be used in the same dishes		

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ANSWERS

Ginger, chilli, turmeric and paprika

Students research the use of the Scoville scale for measuring the hotness of for Students list at least five varieties of chilli pepper, ordering them from the leas

- paprika 100 SHU
- poblano 1,000 SHU
- Jalapeno 3,500 SHU
- pepperoncino 10,000 SH
- cayenne pepper 3.
- 50, \

cialli 100,000 SHU

Students list at least five recipes in which fresh ginger is used, e.g. stir-fry, cu 2. ginger, honey syrup with ginger slices.

Cakes, cookies and puddings **do not count** as they usually call for dried ging

- 3. Students list at least five ingredients of curry powder, such as: turmeric i) pepper, cinnamon, cloves, nutmeg, cardamom and caraway, and indica example, cumin and coriander seeds being the main ingredients, 2 tbsp most important ingredient, 1 tsp, other ingredients in smaller amounts, Note: Recipes will vary depending on source students use.
 - ii) Students indicate what equipment they are going to use (e.g. pestle and n
 - Students indicate at least three potential health outcomes of eating such (boosting metabolism, lowering blood sugar levels, lowering the risk of l antibiotic effect, prevention of cancer, allergy symptoms, nausea, diarrho
 - describe differences between the two saisons.
- Chilli peppers are also used in King and ilipino, Japanese, Bhutanese, Indian, 4.

Black Name of the second seco

- pper is made from dried seeds of the pepper fruits (the fruit fle
 - Green pepper is made from unripe drupes, which were treated with sul
 - Red pepper is made from ripe drupes preserved in brine and vinegar.
 - Pink pepper is actually a member of a different plant family and **does n**
- 2. i) Tea is a common substitute, as it contains caffeine and provides sin
 - Hot maca powder can provide similar flavour, especially if made w
 - Roasted grains, such as barley and rye, chicory and sugar beet, are
 - Another substitute can be made from roasted rice and peas.
 - For example: fenugreek may be seen as better than coffee as it is caffein ii) children or it could be drunk before going to bed as it will not affect slee caffeine makes it worse than coffee, as the fenugreek-based beverage w coffee does. Any three from the following:

 Peppermint

 G:
- 3.
- 4.

 - Fennel
 - Dandelion
 - Camomile

 - Or any other examples



Nutmeg, cloves, cinnamon and vanilla

1. Other names for nutmeg are: bazbaz (Persian), bisbasa (Arabic), gauzbua (Per (Urdu/Punjabi), jatikosha (Sanskrit), jatipatra (Sanskrit), jatipatri (Sanskrit), jatipatri (Sanskrit), jatiphalam (Sanskrit), javitri (Gujarati/Urdu/Marathi), muscade (Franskrita), Myristica aril (Latin), Myristica fragrans (Latin), Myristica of (Latin), noix muscade (French), nuez moscada (Spanish), nux moschata (Englacept any other suitable examples.

Note that Latin names will more often used on the labels of cosmetic production while modern languages will be a front used on the labels of food production to the l

- 2. i) Si He lie the ingredients of a five-spice powder from: cinnamon, clow Szwania peppercorns, or any other (may vary depending on the recipe turmeric, cardamom, liquorice or galangal).
 - ii) Students correctly identify pieces of equipment necessary for preparing mortar, kitchen scales, food processor or blender.
 - iii) Students set up a simple tasting panel and conduct a test for their own
- 3. Vanilla is mostly produced in Madagascar, which is a large island to the east
 - Tropical forests are cut to plant manioc. Manioc has stiff, tall stems. Varisomething to cling onto when growing. Manioc stems are used for this pleft to grow until tall enough, then vanilla is planted and the shoots can
 - Vanilla flowers are pollinated by hand, which means that hundreds of plants can produce fruits.
 - After harvesting, the fruits are dried for at least three months.
 - Deforestation leads to the extinction of some animal and plant species, are ecosystem. Fewer trees means that there is to so you produced, and not the atmosphere, which impacts on the compact and contributes to global.
 - As vanilla is produced in σ σ σ fe λ praces in the world, its transportation footprint.
 - Also the proposition of the following state of the Also the proposition of the following state of the following
- 4. Ceyion cinnamon is mostly grown in Sri Lanka, the Seychelles and Mad
 - Cassia cinnamon is grown in Indonesia and China.
 - Some cinnamon is grown in Vietnam and India.
 - Students should correctly locate these countries on the map.



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Thyme, basil, tarragon and rosemary

Other herbs include:

Rosemary, sage, mint, summer savory, marjoram and, occasionally, lavender tarragon and, therefore, should not be allowed.)

2. Calculated using USDA database:

Calculated using USDA database:			
Nutritional value:	Per pinch		
typical value	2.5 g		
Energy	1 inca		
Fat	','g		
Sat 79 1 fc '	0.001 g		
Mo hturated fats	0.002 g		
Polyansaturated fats	0.01 g		
Carbohydrates	0.07 g		
Sugars (mono- and	0.01 g		
disaccharides)			
Fibre	0		
Protein	0.08 g		
Vitamin A	7 mcg		
Vitamin E	0.02 mg		
Vitamin K	10.4 mcg		
Vitamin B1	0.001 mg		
(Thiamine)			
Vitamin B2	0.002 mg		
(Riboflavin)			
Vitamin B3 (Niacin)	0.023 mg		426362
Folate	2 mcg		
Vitamin C (Ascorbic	Cant) 	
acid)	777		
Calc	4 mg		
Iron	0.08 mg		
Sodium (Salt)	0		
Phosphorus	1 mg		
Potassium	7 mg		
Magnesium	2 mg		

- Eugenol is mostly found in cloves, but also in cinnamon, nutmeg, basil 3.
 - It is an antiseptic (antibacterial) and an anaesthetic (painkiller), popular
 - Excessive use of eugenol is toxic (may cause damage to the liver) and ca
- 4. Fresh herbs should be added at the end of cooking or as a garnish on a eat, to preserve their natural freshness and texture.
 - Dried herbs should be used at the beginning of cocking so that they have aroma and infuse the dish.





Sage and mint

- 1. Other essential herbs are parsley, rosemary and thyme.
- 2. Fresh chopped mint leaves, vinegar, sugar; modern variations include lime j
- 3. Any five from:
 - Rosemary, thyme, bay leaf, basil, garlic, onion, shallots, look, cabbage, peas, obrought to Great Britain by the Romans.
- 4. Any three restaurants, at least one down is sent from each menu which uses relamb shoulder with mint color, it is confillette with locally grown herbs, cod mixed salad dresse in the gush herb oil.

Note: (5 5 5 s will vary depending on the restaurant and dishes ch

Saffron

- 1. Saffron buns are made in Cornwall, with the use of red currants, cinnan
 - Similar treats are made in Sweden (*lussebulle*) and Norway (*lussekatt*), all other spices and use raisins instead of currants.
- 2. Saffron is made from the stigmas of the saffron crocus flower.
 - Each crocus flower has only three of them.
 - So you need about 80,000 crocuses to harvest one kilogram of stigmas.
 - And saffron is made by hand that adds manual labour costs.
 - So the price rockets!

Marjoram, dill and coriander

- 1. Students list five traditional recipes which us mericam. For example:
 - potted game
 - chicken liver pâté
 - tomato sauce
 - tu 19 tui 5
 - Or her suitable examples
- 2. Students indicate and correctly justify at least one herb for each dish:
 - Marjoram, mint, sage, thyme to aid digestion and prevent bloating, in juices, improve the flavour
 - b) Marjoram, tarragon, mint, sage, thyme to aid digestion and prevent was gastric juices, improve the taste and aroma
 - c) Dill, coriander to add texture, flavour and colour
 - d) Thyme, marjoram, mint, sage to aid digestion and prevent bloating, to
 - e) Dill to improve flavour and colour
 - f) Coriander for flavour, saffron for colour



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