

Ingredient Cards

For GCSE WJEC Food Preparation and Nutrition: Vegetables

zigzageducation.co.uk

POD 7752a

Publish your own work... Write to a brief... Register at **publishmenow.co.uk**

♣ Follow us on Twitter @ZigZagFood

Contents

Thank You for Choosing ZigZag Education	i
Teacher Feedback Opportunity	iii
Terms and Conditions of Use	iv
Teacher's Introduction	v
A4 Ingredient Cards	
1. Onion	
2. Leek	
3. Asparagus	
4. Garlic	
5. White Mushroom / Portobello Mushroom	
Mushrooms – Task sheet	
6. Tomato	
Tomato – Task sheet	
7. Courgette (Zucchini)	
8. Pumpkin	
9. Cucumber	
Courgette, pumpkin and cucumber – Task sheet	
10. Carrot	
11. Parsnip	
12. Celeriac	
13. Swede	
Root vegetables (carrot, parsnip, celeriac and swede) — Task sheet	
14. Bell Pepper / Sweet Pepper	
Bell pepper / sweet pepper – Task sheet	
15. Potato	23
16. Sweet Potato	24
Potato and sweet potato – Task sheet	25
17. Cabbage	26
18. Cauliflower	27
19. Broccoli	28
Cruciferous vegetables (cabbage, cauliflower and broccoli) – Task sheet	29
20. Beetroot	30
Beetroot – Task sheet	31
21. Green Peas	33
22. Sweetcorn	34
23. Green Beans	35
Green peas, sweetcorn and green beans – Task sheet	36
24. Spinach	37
25. Lettuce	38
26. Celery	
Leafy greens (spinach, lettuce and celery) – Task sheet	
27. Olives	
28. Avocado	
Olives and avocado – Task sheet	
Answers	44

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 – WJEC (Wales) GCSE Food Preparation and Nutrition.

What it covers

The Ingredient Cards introduce carefully chosen food ingredients – some to represent British cuisine and some to introduce world foods. The resource comprises 28 Vegetables sheets and 12 Task sheets.

	-	-	
1	Onion	Onion, leek, garlic and asparagus – Task sheet	
2	Leek		
3	Asparagus	– Offiori, leek, garric and asparagus – rask stieet	
4	Garlic		
5	Mushrooms	Mushrooms – Task sheet Tomato – Task sheet	
6	Tomato*		
7	Courgette (zucchini)*		
8	Pumpkin*	Courgette, pumpkin and cucumber – Task sheet	
9	Cucumber*		
10	Carrot		
11	Parsnip	Root vegetables (carrot, parsnip, celeriac and	
12	Celeriac	swede) – Task sheet	
13	Swede		
14	Bell pepper*	Bell pepper / sweet pepper – Task sheet	
15	Potato	Detate and sweet notate. Took sheet	
16	Sweet potato	Potato and sweet potato – Task sheet	
17	Cabbage		
18	Cauliflower	Cruciferous vegetables (cabbage, cauliflower and broccoli) – Task sheet	
19	Broccoli	broccony Task sheet	
20	Beetroot	Beetroot – Task sheet	
21	Green peas		
22	Sweetcorn	Green peas, sweetcorn and green beans – Task – sheet	
23	Green beans	Silect	
24	Spinach		
25	Lettuce	Leafy greens (spinach, lettuce and celery) – Task – sheet	
26	Celery	Jileet	
27	Olives*	Olives and avecade. Task sheet	
28	Avocado*	Olives and avocado – Task sheet	

Ingredients marked with a * are botanically classified as fruits as they develop from plants' flowers.

How to use this resource

This resource covers all aspects of the new WJEC (Wales) GCSE specification for Food Preparation and Nutrition and is designed to increase the knowledge, improve the skills, arouse the curiosity and trigger the 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 vegetable is 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 WJEC (Wales) 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: All nutritional data is provided for raw vegetables without skin.

Please note that vegetables do not contain any cholesterol, and, 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).

- 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 the given product in order to preserve its nutritional value, colour, texture and flavour.

The vegetables 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 WJEC (Wales) 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 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.

Note about the nutritional data provided and spec coverage:

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 WJEC (Wales) GCSE specification for Food Preparation and Nutrition, as they provide additional data on sodium, phosphorus and Vitamins E and K.

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 WJEC (Wales) GCSE specification covers.

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

September 2017

Free Updates!

Register your email address to receive any future free updates* made to this resource or other Food and Nutrition resources your school has purchased, and details of any promotions for your subject.

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

Go to zzed.uk/freeupdates

1. ONION



What is It?

Onion is a vegetable bulb of the plant *Allium cepa L*. It is be covered with a couple of layers of inedible husk (paper-like be used as a natural brown pigment; for example, for dyeir There are many varieties of onion, one of the most popular

Common Cuisines:

Onion is a common ingredient in cuisines all around the world due to its pungent easily changeable flavour. Onion is used in North African cuisine due to the sweet can give to dishes. In Asian cuisine it is used as a bulking agent in curries. You will use for onion in most cuisines you come across.

Nutritional Information:

These values may vary. Data is given for brown onion.

These values may vary. Data is given for brown onto			
Nutritional value: typical value	Per 100 g	Per 1 large (150 g)	
Energy	40 kcal	60 kcal	
Macro	nutrients		
Fat	0.1 g	0.15 g	
Saturated fats	0.04 g	0.063 g	
Monounsaturated fats	0.01 g	0.019 g	
Polyunsaturated fats	0.02 g	0.026 g	
Carbohydrates	9.4 g	14 g	
Starch (polysaccharides)	0	0	
Sugars (mono- and disaccharides)	4.25 g	6.36 g	
Fibre	1.7 g	2.5 g	
Protein	1.1 g	1.65 g	
Micro	nutrients		
Vitamin A	0	0	
Vitamin D	0	0	
Vitamin E	0.02 mg	0.03 mg	
Vitamin K	0.4 mcg	0.6 mcg	
Vitamin B1	0.05 mg	0.069 mg	
(Thiamine) Vitamin B2 (Riboflavin)	0.03 mg	0.041 mg	
Vitamin B3 (Niacin)	0.12 mg	0.174 mg	
Folate	19 mcg	28 mcg	
Vitamin B12	0	0	
Vitamin C (Ascorbic acid)	7.4 mg	11.1 mg	
Calcium	23 mg	34 mg	
Iron	0.20 mg	0.32 mg	
Sodium (Salt)	4 mg	6 mg	
Fluoride	1.1 mcg	1.65 mcg	
lodine	2 mcg	3 mcg	
Phosphorus	29 mg	44 mg	
Potassium	146 mg	219 mg	
Magnesium	10 mg	15 mg	
g – grams, mg – milligrams, mcg – micrograms			

Nutrition

Health Benefits:

Onion is rich in potassium which necessary for maintaining propagate quercetin, which is an important antioxidant) effective in the trainflammation. It also contains support the treatment of colds makes it appropriate for peop Onion also provides vitamin Control The high calcium content helps individuals, making it suitable

Allergy and Health Risks:

Although the quercetin in onice stopping the production of his people with allergies to grass ponion. It is also worth limiting relatively high sugar content. Expecially raw onion) may result

Alte

For caramelising in dishes, use For savoury, pungent flavour For flavour and aroma, use fee For the harsh peppery taste,

Cooking Uses:

- Caramelise to use in 😪
- Keep raw for use in sale
- **Sauté** for use as a gar
- Pickle for use in salad
- **Dehydrate** to use as a
 - meats, marinades, pas **Fry** for use in burgers,

COPYRIGHT PROTECTED



2. LEEK



What is It?

Plant closely related to onion built of many long leaves tight of a cylinder. The white part is very delicate and sweet in flapart is more nutritious.

Common Cuisines:

Leek was probably first grown in ancient Egypt, from where it was brought to Rome and other European countries. Nowadays it is a common ingredient worldwide; for example, in Turkish, French or Welsh cuisines. Le gro har coc (at a

Nutritional Information:

These values may vary.

Nutritional value: typical value	Per 100 g	Per 1 leek (140 g)	
Energy	61 kcal	85.4 kcal	
Macron	utrients		
Fat	0.3 g	0.42 g	
Saturated fats	0.04 g	0.056 g	
Monounsaturated fats	0.004 g	0.0056 g	
Polyunsaturated fats	0.16 g	0.224 g	
Carbohydrates	14.15 g	19.81 g	
Starch (polysaccharides)	-	-	
Sugars (mono- and disaccharides)	3.9 g	5.46 g	
Fibre	1.8 g	2.52 g	
Protein	1.5 g	2.1 g	
Micron	utrients		
Vitamin A	83 mcg	116.2 mcg	
Vitamin D	0	0	
Vitamin E	0.92 mg	1.288 mg	
Vitamin K	47 mcg	65.8 mcg	
Vitamin B1 (Thiamine)	0.06 mg	0.084 mg	
Vitamin B2 (Riboflavin)	0.03 mg	0.042 mg	
Vitamin B3 (Niacin)	0.4 mg	0.56 mg	
Folate	64 mcg	89.6 mcg	
Vitamin B12	0	0	
Vitamin C (Ascorbic acid)	12 mg	16.8 mg	
Calcium	59 mg	82.6 mg	
Iron	2 mg	2.8 mg	
Sodium (Salt)	20 mg	28 mg	
Fluoride	0	0	
lodine	0	0	
Phosphorus	35 mg	49 mg	
Potassium	180 mg	252 mg	
Magnesium	28 mg	39 mg	
g – grams, mg – milligrams, mcg – micrograms			

Nutritional A

Health Benefits:

Leek is a source of beta card proper eyesight, and cholin maintaining good memory. It treatment due to its high iro (polyphenols and antioxidal 'bad' cholesterol levels in blads obe used in the treatment its diuretic activity. Leek also necessary for maintaining hip piece of leek provides almos which is necessary to build

Allergy and Health Risks:

Leeks generally don't have makes in side effects, although excess laxative effect. Raw leeks can

Altern

For stronger, more punger onion or garlic.

For similarly mild flavour,

Cooking Uses:

- **Meep raw** for use in sale
- 📵 Fry for sauces, soups 🔊
- Stew, steam or roast
- Fry, stew or steam to or dumplings
- Mash to add to mash

SPECTION COPY



3. ASPARAGUS



What is It?

Spring vegetable with a crunchy texture and delicate edible characteristic shape and delicate flavour. Available in green varieties. White asparagus is grown by earthing it up to prevand creation of the green pigments. Only young asparagus spears turn woody and are hard to chew.

Common Cuisines:

Although asparagus is mostly grown in China, it is more characteristic of north-western European countries, such as Germany, France, Spain and the Netherlands.

l L W to

Nutritional Information:

These values may vary.

Nutritional value: typical value	Per 100 g	Per 1 medium spear (16 g)
Energy	20 kcal	3 kcal
Macro	nutrients	
Fat	0.12 g	0.02 g
Saturated fats	0.04 g	0.006 g
Monounsaturated fats	0	0
Polyunsaturated fats	0.05 g	0.008 g
Carbohydrates	3.88 g	0.62 g
Starch (polysaccharides)	-	-
Sugars (mono- and disaccharides)	1.88 g	0.3 g
Fibre	2.1 g	0.3 g
Protein	2.2 g	0.35 g
Micro	nutrients	
Vitamin A	38 mcg	6 mcg
Vitamin D	0	0
Vitamin E	1.13 mg	0.18 mg
Vitamin K	41.6 mcg	6.7 mcg
Vitamin B1 (Thiamine)	0.143 mg	0.023 mg
Vitamin B2 (Riboflavin)	0.141 mg	0.023 mg
Vitamin B3 (Niacin)	0.98 mg	0.16 mg
Folate	52 mcg	8 mcg
Vitamin B12	0	0
Vitamin C (Ascorbic acid)	5.6 mg	0.9 mg
Calcium	24 mg	4 mg
Iron	2.14 mg	0.34 mg
Sodium (Salt)	2 mg	0 mg
Fluoride	0	0
lodine	0	0
Phosphorus	52 mg	8 mg
Potassium	202 mg	32 mg
Magnesium	14 mg	2 mg
g – grams, mg – milligrams, m	ı cg – microgram	S

Nutritional

Health Benefits:

Asparagus is very low in calcular great element of low-calorie people with hypertension of necessary to prevent bleeding well as folates, which help to a source of calcium which sumuscle contractions and block (24 mg in 100 g), which improvides quercetin (an imporprebiotic – substance which in the gut).

Allergy and Health Risks

Asparagus contains purines bladder and kidney stones. especially in people with dig sulfur compounds, which me cause allergic reactions, especially in a symptom inflammation, tightness of the anaphylactic shock.

Alte:

For the colour, texture a broccoli.

For crunchiness, use bro

Cooking Uses:

- Steam to serve as a
- **Bake** under a sauce
- Pickle to use in sala
- **Fry or sauté** to use
- Boil or steam and s boiled eggs, sprinkle

ISPECTION COPY



4. GARLIC



What is It?

Aromatic vegetable built of small cloves tightly packed bulb and covered with a couple of layers of thin husk oils and pungent in flavour, garlic is available in many

Common Cuisines:

Garlic is widely used in cookery around the world, including Vietnamese, Chinese, Thai, Korean and North African cuisines, and in southern European cuisines such as those from Italy or Bulgaria. Garlic consumption is forbidden in several religions and beliefs, such as Hinduism, Buddhism and Sikhism, as they believe it overstimulates the senses.

Nutritional Information:

These values may differ between similar products.

These values may affer between similar products.				
Nutritional value: typical value	Per 100 g	Per 1 clove (3 g)		
Energy	149 kcal	4 kcal		
Macron	utrients			
Fat	0.5 g	0.01 g		
Saturated fats	0.089 g	0.003 g		
Monounsaturated fats	0.011 g	0		
Polyunsaturated fats	0.248 g	0.007 g		
Carbohydrates	33.06 g	0.99 g		
Starch	0	0		
(polysaccharides)				
Sugars (mono- and disaccharides)	1 g	0.03 g		
Fibre	2.1 g	0.1 g		
Protein	6.36 g	0.19 g		
Micronutrients				
Vitamin A	0	0		
Vitamin D	0	0		
Vitamin E	0.08 mg	0		
Vitamin K	1.7 mcg	0.1 mcg		
Vitamin B1 (Thiamine)	0.2 mg	0.006 mg		
Vitamin B2 (Riboflavin)	0.11 mg	0.003 mg		
Vitamin B3 (Niacin)	0.7 mg	0.021 mg		
Folate	3 mcg	0 mcg		
Vitamin B12	0	0		
Vitamin C (Ascorbic acid)	31.2 mg	0.9 mg		
Calcium	181 mg	5 mg		
Iron	1.7 mg	0.05 mg		
Sodium (Salt)	17 mg	1 mg		
Fluoride	0	0		
lodine	3 mcg	0		
Phosphorus	153 mg	1 mg		
Potassium	401 mg	12 mg		
Magnesium	25 mg	1 mg		
g – grams, mg – milligrams, mcg – micrograms				

Nutrition

Health Benefits:

Garlic is high in calcium, necession development of bones and appotassium, which lowers bloof flavonols (a group of polyphantioxidants and fight off in as a natural antibiotic, often the treatment of colds and fight off in the development of colds and fight of the second colds.

Allergy and Health Risks:

Garlic should be avoided in (recommended for people ware. Overconsumption may)

Alte

For the pungent aroma, use as For the sweet flavour, substitut For spiciness in sauces and curr For the use in pesto and other For caramelising, use onion.

Cooking Uses:

- Mince or crush to use
- 📵 Caramelise to use in 🥨
- Caramelise to make b cuisine)
- **Dehydrate** to use as a curries, sauces and dres
- Pickle whole cloves cucumbers or peppers
- Infuse to prepare aros spirits

USPECTION COPY



ONION, LEEK, GARLIC AND ASPARAGUS

1.	Name one religion or belief in which garlic or onion consumption is fo
	reason behind this dietary restriction. [Area 6]
2.	Try to explain why you cry when chopping an onion, and indicate how
_	
3.	Leek is the national emblem of a country. What is the name of that co containing leek is made there? [Area 5]
4.	Research some information about green asparagus, and indicate diffe asparagus and white asparagus. [Area 1, Area 3]
F	
5.	Identify one major diet-related risk and describe how either onion, lee to reduce or alleviate its symptoms or onset. [Area 3]
6.	At what temperature and conditions should onion, garlic, leeks and asp

INSPECTION COPY



Identify and draw five different types of onions. Describe the difference between them, and suggest one ideal culinary use for each. [Area 1, Area 6, COPYRIGHT **PROTECTED** Extension [Area 1, Area 4, Area 6, skill2, skills 10–12] Choose one of the ingredients (onion, leek, asparagus or garlic) and would be characteristic of two different cuisines, but would contain Design a recipe card for each of your dishes to show any key diffe that ingredient in them.

5. WHITE MUSHROOM / PORTOBEL



What is It?

One of the many types of edible mushroom. White n wild, but it is usually grown in polytunnels. It has soft flesh with a dark brown underside. Other mushrooms mushrooms (also commercially cultivated) and a wide such as chanterelle, boletus, blewit, morels, truffles a

Common Cuisines:

Widely used in North American and European cuisines, such as Italian, French or Polish. Each of the cuisines uses different varieties of mushroom, so the dishes are specific to the region they come from.

li n w sh pre or i

Nutritional Information:

These values may vary. The data shown is for white mushroom.

Nutritional value: typical value	Per 100 g	Per 1 mushroom (20 g)
Energy	22 kcal	4.4 kcal
Macronu		
Fat	0.34 q	0.068 g
Saturated fats	0.05 g	0.008 g
Monounsaturated fats	0.03 g	0.019
Polyunsaturated fats	0.16 g	0.03 g
Carbohydrates	3.25 g	0.65 g
Starch (polysaccharides)	0 0	0.83 g
Sugars (mono- and disaccharides)	1.98 g	0.4 g
Fibre	1 g	0.2 g
Protein	3.09 g	0.62 g
Micronu	trients	
Vitamin A	0	0
Vitamin D	0.2 mcg	0.04 mcg
Vitamin E	0	0
Vitamin K	0	0
Vitamin B1 (Thiamine)	0.08 mg	0.016 mg
Vitamin B2 (Riboflavin)	0.4 mg	0.08 mg
Vitamin B3 (Niacin)	3.6 mg	0.72 mg
Folate	17 mcg	3.4 mcg
Vitamin B12	0	0
Vitamin C (Ascorbic acid)	2 mg	0.4 mg
Calcium	3 mg	0.6 mg
Iron	0.5 mg	0.1 mg
Sodium (Salt)	5 mg	1 mg
Fluoride	0	0
lodine	2 mcg	0.4 mg
Phosphorus	86 mg	17.2 mg
Potassium	318 mg	64 mg
Magnesium	9 mg	2 mg
g – grams, mg – milligrams, m	ncg – microg	grams

Nutritional

Health Benefits:

Mushrooms are very low in suitable for people on a low essential amino acids, which protein. They also contain characteristics from excess fat. Their high prodium level makes mushro hypertension. They are a sourare in fruit and vegetables.

Allergy and Health Risks:

Mushrooms should be avoide three years old), the elderly diseases, because the high co walls makes them difficult to

Alter

For the umami flavour, try using beef broth.

To bulk up the dish, use chopper meat or Quorn™.

For texture, try using cauliflower

Cooking Uses:

- Keep raw to eat as a sn be eaten this way!)
- Stew or fry to use in sc
- Pickle to use in salads
- Dry and pulverise or c
- **Fry** to use in risotto or p
- Fry to use in scrambled
- **Dry** to use for umami fl

ISPECTION COPY



MUSHROOMS - TASK SHEET

	xplain why mushrooms may be considered a seasonal food. [Area 6]
••	
••	
••	
Ε	xplain what 'umami' means, and list other foods which provide the
•	
••	
••	
••	
••	
	Design three dishes which contain mushrooms and are suitable for
	Design three dishes which contain mushrooms and are suitable for
	Design three dishes which contain mushrooms and are suitable for
	Design three dishes which contain mushrooms and are suitable for
	Design three dishes which contain mushrooms and are suitable for
	Design three dishes which contain mushrooms and are suitable for
	Design three dishes which contain mushrooms and are suitable for
	Design three dishes which contain mushrooms and are suitable for
	Design three dishes which contain mushrooms and are suitable for
	Design three dishes which contain mushrooms and are suitable for
	Design three dishes which contain mushrooms and are suitable for
d	Design three dishes which contain mushrooms and are suitable for

INSPECTION COPY



6. TOMATO



What is It?

Round or oval, soft fruit with many small seeds, usually a thin layer of skin which peels off easily after blanchivarieties of tomato, which differ in colour, flavour, shall

Common Cuisines:

Although tomatoes originate from South America, today they are a common ingredient in cuisines all around the world, such as Italian, Mexican, Spanish and Bulgarian. Tomatoes owe their popularity to their distinctive umami flavour, sweetness and ability to grow in various climatic conditions

ke rip in a bes

Nutritional Information:

These values may vary.

Nutrition

Health Benefits:

Tomatoes are very low in call virtually any amount, especial content of beta carotene may eyesight. Their natural red proposerful antioxidant, which cancer. Tomatoes are a great necessary for maintaining provitamin K, which supports prare a source of vitamin, E whelps to prevent ageing.

Allergy and Health Risks:

Green tomatoes contain a g which may affect the central convulsions or vomiting, so green tomatoes. The skin m especially for children and t allergies, but this is not very

Alte

For texture, sweetness and a

- persimmon
 - butternut squash
- bell pepper
- kumquat or kiwi fruit
- roasted turnips

Cooking Uses:

- **Meep fresh** to use in sala
- Squeeze for a juice (and for home-made ketchup)
- **Chop and simmer** for sa
- **Dry** to use in pasta, sand
 - **Dry and mince** to make
- Deseed and bake with s

USPECTION COPY

COPYRIGHT PROTECTED



Per 1 **Nutritional value:** medium Per 100 a typical value tomato (170 g) **Energy** 18 kcal 30.6 kcal Macronutrients Fat 0.2 g 0.34 g Saturated fats 0.028 g 0.04 gMonounsaturated fats 0.031 g 0.05 g Polyunsaturated fats 0.083 g 0.14 q **Carbohydrates** 3.9 q 6.63 q Starch (polysaccharides) Sugars (mono- and 2.65 g disaccharides) 4.5 q Fibre 1.2 g 2.04 g **Protein** 0.88 g 1.49 q Micronutrients Vitamin A 42 mcg 71.4 mcg Vitamin D Vitamin E 0.54 mg 0.92 mg Vitamin K 7.9 mcg 13.43 mcg Vitamin B1 (Thiamine) 0.04 mg 0.07 mg Vitamin B2 (Riboflavin) 0.02 mg 0.034 mg Vitamin B3 (Niacin) 0.6 mg 1.02 mg **Folate** 15 mcg 25.5 mcg Vitamin B12 0 Vitamin C (Ascorbic 14 mg acid) 23.8 mg **Calcium** 10 mg 17 mg Iron 0.27 mg 0.46 mg Sodium (Salt) 5 mg 8.5 mg **Fluoride** 2.3 mcg 3.91 mcg **lodine** 2 mcg 3.4 mcg **Phosphorus** 24 mg 40.8 mg **Potassium** 237 mg 403 mg

g – grams, mg – milligrams, mcg – micrograms

11 mg

19 mg

Magnesium

TOMATO - TASK SHEET

Indicate whether or not tomatoes are seasonal foods. Justify your answ Indicate how different methods of processing will affect the nutritional Blanching: Making a tomato juice: Making a tomato soup: Suggest what kind of knife and which gripping technique you should Identify the advantages and disadvantages of your choice. [skill 1] What kind of date mark would you find on the packaging of: [Area 4] fresh cherry tomatoes? b) canned tomatoes?

INSPECTION COPY



Extension [Area 6] Choose five different varieties of tomato and set up a tasting panel to codifferent tests to evaluate their texture, sweetness, acidity, colour, size of

NSPECTION COPY



7. COURGETTE (ZUCCHI



What is It?

Long summer squash, usually green in colour on greenish on the inside. Courgette flowers are also to America or Europe, you may find that courgette

Common Cuisines:

As with other varieties of squash, courgettes originally came from South or Central America. From there they were brought to Europe, and now they are widely used in Mediterranean countries, such as France, Egypt, Greece and Turkey.



St. St. Will prethe

Nutritional Information:

These values may vary.

Nutritional value: typical value	Per 100 g	Per 1 medium zucchini (300 g)
Energy	17 kcal	51 kcal
Macron	utrients	
Fat	0.32 g	0.96
Saturated fats	0.084 g	0.252
Monounsaturated fats	0.011 g	0.033
Polyunsaturated fats	0.091 g	0.273
Carbohydrates	3.11 g	9.33
Starch	0	
(polysaccharides)		0
Sugars (mono- and	2.5 g	
disaccharides)		7.5
Fibre	1.0 g	3
Protein	1.21 g	3.63
Micron	utrients	
Vitamin A	10 mcg	30
Vitamin D	0	0
Vitamin E	0.12 mg	0.36
Vitamin K	4.3 mcg	12.9
Vitamin B1 (Thiamine)	0.05 mg	0.15
Vitamin B2 (Riboflavin)	0.09 mg	0.27
Vitamin B3 (Niacin)	0.45 mg	1.35
Folate	24 mcg	72
Vitamin B12	0	0
Vitamin C (Ascorbic	18 mg	
acid)		54
Calcium	16 mg	48
Iron	0.37 mg	1.11
Sodium (Salt)	8 mg	24
Fluoride	0	0
lodine	0	0
Phosphorus	38 mg	114
Potassium	261 mg	783 mg
Magnesium	18 mg	54 mg
g – grams, mg – milligrams, m	ı cg – microgram	S

Nutritional

Health Benefits:

Courgette, like many other calories. It contains high level lutein and zeaxanthin, which support proper eyesight. Converted which makes it a great food to maintain proper hydratic people with digestive problemals or rich in potassium – one over 20% of RNI for this minimum.

Allergy and Health Risks:

Very rare cases of allergy to Courgette contains some are crystallise in the human bod bladder stones, but these sid

Alte

For similar texture and tass squash.

To improve nutritional value which is higher in beta care

Cooking Uses:

- Stew to use in ratatou
- Steam and blend to
- Grate to add to panca
- Pickle to use in salads
- Tierre to ase in salad.
- **Bake** with a stuffing a
- Raw and thinly sliced

Grill to use as a side d

COPYRIGHT PROTECTED

CION



8. PUMPKIN



What is It?

Large, orange round squash, most popular around Hallow and seeds are edible; seeds are also used to produce oils

Common Cuisines:

Pumpkin is a staple food in the USA around Halloween, where it is used to prepare pumpkin pie (and lanterns), and in Mexico (calabaza en tacha – candied pumpkin).

Nutritional Information:

These values may vary.

Nutritional value: typical value	Per 100 g	Per cup of 2.5cm cubes (116 g)
Energy	26 kcal	30 kcal
Macron	utrients	
Fat	0.1 g	0.12 g
Saturated fats	0.052 g	0.06 g
Monounsaturated fats	0.013 g	0.015 g
Polyunsaturated fats	0.005 g	0.006 g
Carbohydrates	6.5 g	7.55 g
Starch (polysaccharides)	-	-
Sugars (mono- and disaccharides)	2.76 g	3.2 g
Fibre	0.5 g	0.6 g
Protein	1 g	1.16 g
Micron	utrients	
Vitamin A	426 mcg	494 mcg
Vitamin D	0	0
Vitamin E	1.06 mg	1.23 mg
Vitamin K	1.1 mcg	1.3 mcg
Vitamin B1 (Thiamine)	0.05 mg	0.058 mg
Vitamin B2 (Riboflavin)	0.11 mg	0.13 mg
Vitamin B3 (Niacin)	0.6 mg	0.7 mg
Folate	16 mcg	19 mcg
Vitamin B12	0	0
Vitamin C (Ascorbic acid)	9 mg	10.4 mg
Calcium	21 mg	24 mg
Iron	0.8 mg	0.93 mg
Sodium (Salt)	1 mg	1 mg
Fluoride	0	0
lodine	0	0
Phosphorus	44 mg	51 mg
Potassium	340 mg	394 mg
Magnesium g – grams, mg – milligrams, m	12 mg	14 mg

Nutritiona

Health Benefits:

Pumpkin is a great source of antioxidants such as lutein a necessary for proper eyesign membranes. It is very low in in potassium, so may be consodium or low-calorie diet. calcium and group B vitamingentle on the digestive systematment of kidney and blaused for treating parasite in zinc, which improves immunication.

Allergy and Health Risks:

It is very rare to develop an ausually safe to feed it to babe eating the seeds may result

Alte

For the delicate flavour and for the colour and texture for the texture and colour parsnips or celeriac.

Cooking Uses:

- Simmer and blend to
- **●** Mash to make gnocch
- Roast or bake to use
- Grate and bake in pies cheesecake
- **Pickle** to use in salads
- Pickle or roast to use feta cheese or other in
 - **Purée** to use in a latte

COPYRIGHT PROTECTED

CION



9. CUCUMBER



What is It?

Long, firm vegetable with dark green skin and light green delicate Usually eaten raw (with or without skin), but may also be pickled. Jucucumber is botanically a fruit. Cucumbers differ in shape and lengthave a smooth skin, while others can have little spikes.

Common Cuisines:

Cucumbers are known and used worldwide, but it's worth paying special attention to Bulgarian cuisine, where cucumbers are used to prepare Shopska salad, and to Eastern European (e.g. Polish) cuisine, where cucumbers are pickled and used to prepare hot cucumber soups (winter) and cold buttermilk soups (summer).

F k w do it's

Nutritional Information:

These values may differ between similar products.

	1	1
Nutritional value: typical value	Per 100 g	Per 1 long cucumber (280 g)
Energy	12 kcal	34 kcal
Macro	nutrients	
Fat	0.16 g	0.45 g
Saturated fats	0.013 g	0.036 g
Monounsaturated fats	0.002 g	0.006 g
Polyunsaturated fats	0.003 g	0.008 g
Carbohydrates	2.16 g	6.05 g
Starch (polysaccharides)	-	-
Sugars (mono- and disaccharides)	1.38 g	3.86 g
Fibre	0.7 g	2 g
Protein	0.59 g	1.65 g
Micron	utrients	
Vitamin A	4 mcg	11 mcg
Vitamin D	0	0
Vitamin E	0.03 mg	0.08 mg
Vitamin K	0	0
Vitamin B1 (Thiamine)	0.031 mg	0.087 mg
Vitamin B2 (Riboflavin)	0.025 mg	0.07 mg
Vitamin B3 (Niacin)	0.049 mg	0.1 mg
Folate	14 mcg	39 mcg
Vitamin B12	0	0
Vitamin C (Ascorbic acid)	3.2 mg	9 mg
Calcium	14 mg	39 mg
Iron	0.22 mg	0.62 mg
Sodium (Salt)	2 mg	6 mg
Fluoride	1.3 mcg	3.6 mcg
lodine	3 mcg	8.4 mcg
Phosphorus	21 mg	59 mg
Potassium	136 mg	381 mg
Magnesium	12 mg	34 mg
g – grams, mg – milligrams, mcg	– micrograms	

Nutrit

Health Benefits:

Almost 97% of cucumber makes it a great source satisfying thirst. Cucumstrong teeth, and iodir Cucumber has a low godiabetics, and low sod for people with hypert source of probiotic bacand bowel movements.

Allergy and Health Allergy to cucumbers does occur, this is most

does occur, this is most production. Raw cucum enzyme which breaks serve them with other cucumbers are safe to vegetables, such as to

Αl

For the fresh, delicate For the crunchiness, use For flavour and colou

Cooking Uses:

- Keep raw and slicestortillas
- Grate or slice to us
- **®** Blend to add to co
- Pickle to use in sal
- Fresh or pickled to
- Grate or slice to see with vinegar, salt are

COPYRIGHT PROTECTED

CHON



^{*}remember that the enzyme in cucumber can damage vitamin C from other vegetables; it is O are not sliced too finely and mixed directly before serving

COURGETTE, PUMPKIN AND CUCUMBER -

1.	Courgette, pumpkin and cucumber are considered seasonal vegetable which they are harvested. [Area 6]
2.	Research information about the vegetables above and describe whether local foods. [Area 5]
3.	Which of the three vegetables (courgette, pumpkin or cucumber) is the
4.	Evaluate the advantages and disadvantages of developing genetically specified vegetables. [Area 5]
1	
	Extension [Area 4, Area 6] Research information on how to make pickled cucumbers, and then list used in the process. List each step in the pickling process, and give pickling process.
	ingredients available. After two weeks, assess whether or not you have stasting panel for your product.

INSPECTION COPY



10. CARROT



What is It?

Hard root vegetable, usually orange in colour, but different light yellow to dark purple. In some countries, the greens a immature carrots are available in shops as 'baby carrots' – different variety.

Common Cuisines:

Carrots are used in cuisines all around the world. Around the fifteenth century they were brought to the UK, where they became a staple food. Carrots are popular in both savoury and sweet dishes due to their universal, slightly sweet taste and indistinct aroma.

Nutritional Information:

These values may vary.

Nutritional value: typical value	Per 100 g	Per 1 carrot (45 g)	
Energy	41 kcal	18.45 kcal	
Macron	utrients		
Fat	0.24 g	0.11 g	
Saturated fats	0.037 g	0.02 g	
Monounsaturated fats	0.014 g	0.01 g	
Polyunsaturated fats	0.117 g	0.05 g	
Carbohydrates	9.58 g	4.3 g	
Starch (polysaccharides)	1.43 g	0.64 g	
Sugars (mono– and disaccharides)	4.74 g	2.13 g	
Fibre	2.8 g	1.26 g	
Protein	0.93 g	0.42 g	
Micron	utrients		
Vitamin A	835 mcg	376 mcg	
Vitamin D	0	0	
Vitamin E	0.66 mg	0.3 mg	
Vitamin K	13.2 mcg	5.94 mcg	
Vitamin B1 (Thiamine)	0.066 mg	0.03 mg	
Vitamin B2 (Riboflavin)	0.058 mg	0.026 mg	
Vitamin B3 (Niacin)	0.99 mg	0.45 mg	
Folate	19 mcg	8.55 mcg	
Vitamin B12	0	0	
Vitamin C (Ascorbic acid)	6 mg	2.7 mg	
Calcium	33 mg	15 mg	
Iron	0.3 mg	0.14 mg	
Sodium (Salt)	69 mg	31 mg	
Fluoride	3.2 mcg	1.44 mcg	
lodine	0	0	
Phosphorus	35 mg	16 mg	
Potassium	320 mg	144 mg	
Magnesium	12 mg	5 mg	
g – grams, mg – milligrams, mcg – micrograms			

Nutrition

Health Benefits:

Carrot is known for its beta supports proper eyesight, a epithelium, hair and nails. Raindex, so can be eaten by danecessary for proper blood carrot support proper bowe helps to cure diarrhoea, which constipation.

Allergy and Health Risks:

Large amounts of vitamin A people suffering from liver a doctor before consuming carrot has a relatively high githat it should be avoided by common allergen.

Alte

For similar texture and flav root, daikon or celeriac. For the colour and sweetn

butternut squash.

Cooking Uses:

- **Keep raw** to use in sa
- Cook whole or chop dishes
- **Blend** raw to use in ju
- Cook and blend to m
- **©** Grate to use in muffir
- Pickle (alone or with a flavour
- **Steam or roast** as a s

ISPECTION COPY



11. PARSNIP



What is It?

White root vegetable native to Europe and Asia, often mistabecause of its appearance. Despite being neglected and und countries, it is one of the most popular winter vegetables in be a staple food in Eastern Europe before potatoes were important.

Common Cuisines:

The use of parsnips is characteristic of British cuisine, but they are also used in Germany, France and the Netherlands. Parsnip very often grows in the wild (gaining it popularity during the World War II).

Store is shed or in moiss weeks. I

Nutritional Information:

These values may vary.

Nutritional value: typical value	Per 100 g	Per 1 small parsnip (80 g)	
Energy	75 kcal	60 kcal	
Macron	utrients		
Fat	0.30 g	0.24 g	
Saturated fats	0.05 g	0.04 g	
Monounsaturated fats	0.112 g	0.09 g	
Polyunsaturated fats	0.047 g	0.04 g	
Carbohydrates	18 g	14.4 g	
Starch (polysaccharides)	6.2 g	4.96 g	
Sugars (mono- and disaccharides)	4.8 g	3.84 g	
Fibre	4.9 g	3.92 g	
Protein	1.2 g	0.96 g	
Micron	utrients		
Vitamin A	0	0	
Vitamin D	0	0	
Vitamin E	1.5 mg	1.2 mg	
Vitamin K	22.5 mcg	18 mcg	
Vitamin B1 (Thiamine)	0.09 mg	0.07 mg	
Vitamin B2 (Riboflavin)	0.05 mg	0.04 mg	
Vitamin B3 (Niacin)	0.7 mg	0.56 mg	
Folate	67 mcg	53.6 mcg	
Vitamin B12	0	0	
Vitamin C (Ascorbic acid)	17 mg	13.6 mg	
Calcium	36 mg	28.8 mg	
Iron	0.6 mg	0.48 mg	
Sodium (Salt)	10 mg	8 mg	
Fluoride	0	0	
lodine	0	0	
Phosphorus	71 mg	56.8 mg	
Potassium	375 mg	300 mg	
Magnesium	29 mg	23 mg	
g – grams, mg – milligrams, mcg – micrograms			

Nutrition

Health Benefits:

Parsnip is high in fibre, which high-fibre diet. It provides blood clotting. Parsnip also stimulates diuresis. It is an which helps to lower blood electrolyte – one small parsifor this mineral.

Allergy and Health Risks:

Parsnip contains furanocoulallergic reactions and skin calories, which may make it wish to lose weight. It contadoes calcium, which may imbalance if not mixed with calories in sugar, which makes

Alte

For texture and aroma, be parsley root.

For the colour and texture slightly nutty flavour, use co

Cooking Uses:

- Steam, fry or roast to
- Bake or fry in the form
- Grate or dice to add to
- Steam or boil and ble
- Mash to use in a puré
- **Caramelise** to use as
- Shred and blanch to

COPYRIGHT PROTECTED

CION



12. CELERIAC



What is It?

Round creamy root with edible leaves –not to be mistaken for celeriac is quite tough and nutty in flavour.

Common Cuisines:

Celeriac originated in the Mediterranean and then spread to the rest of Europe, where it is now considered a staple food. It is worth noting that celeriac can be used interchangeably with celery as the base for the famous Waldorf salad.

Stora Celeriac dark pla its stems

Nutritional Information:

These values may vary.

Nutritional value: typical value	Per 100 g	Per 1 cup of 2.5cm cubes (156 g)	
Energy	42 kcal	66 kcal	
	utrients	T 0 47	
Fat	0.3 g	0.47 g	
Saturated fats	0.079 g	0.123 g	
Monounsaturated fats	0.058 g	0.09 g	
Polyunsaturated fats	0.148 g	0.231 g	
Carbohydrates	9.2 g	14.35 g	
Starch (polysaccharides)	0.5 g	0.75 g	
Sugars (mono- and disaccharides)	1.6 g	2.5 g	
Fibre	1.8 g	2.8 g	
Protein	1.5 g	2.34 g	
Micron	utrients		
Vitamin A	0	0	
Vitamin D	0	0	
Vitamin E	0.36 mg	0.56 mg	
Vitamin K	41 mcg	64 mcg	
Vitamin B1 (Thiamine)	0.05 mg	0.078 mg	
Vitamin B2 (Riboflavin)	0.06 mg	0.094 mg	
Vitamin B3 (Niacin)	0.7 mg	1.1 mg	
Folate	8 mcg	12 mcg	
Vitamin B12			
Vitamin C (Ascorbic acid)	8 mg	12.5 mg	
Calcium	43 mg	67 mg	
Iron	0.7 mg	1.09 mg	
Sodium (Salt)	100 mg	156 mg	
Fluoride	0	0	
lodine	0	0	
Phosphorus	115 mg	179 mg	
Potassium	300 mg	468 mg	
Magnesium	20 mg	31 mg	
g – grams, mg – milligrams, mcg – micrograms			

Nutrition

Health Benefits:

Celeriac is low in calories and the body to help blood clot which helps to prevent certain of niacin, necessary for release the regulation of the nervous of antioxidants which may prodown ageing.

Allergy and Health Risks:

Celeriac is a strong allergen separately from other production on the production of the strong stron

Alte

For colour, flavour and sm parsnips or parsley root. For texture in mash, use po

Cooking Uses:

- Raw, grated and blam
- Steam or simmer to
- Roast or grill to serve
- Coat in breadcrumbs vegetarian-friendly dis

COPYRIGHT PROTECTED

ECTION



13. SWEDE



What is It?

Also known as rutabaga, swede evolved as a cross between This vegetable comes from industrial crops only (i.e. it does Larger bulbs may be woody inside, so it's best to choose sn

Common Cuisines: Swedish, Finnish, Scottish

In Finland swede is used to make a traditional Christmas casserole. In Sweden it is cooked and mashed with potatoes and butter into rotmos. In Scotland it forms part of neeps and tatties, traditionally served with haggis.

Stora Brush of then sto May be v Blanched

Nutritional Information:

These values may vary.

Nutritional value: typical value	Per 100 g	Per 1 small swede (600 g)
Energy	24 kcal	144 kcal
Macron	utrients	
Fat	0.3 g	1.8 g
Saturated fats	-	-
Monounsaturated fats	0.1 g	0.6 g
Polyunsaturated fats	0.2 g	1.2 g
Carbohydrates	5 g	30 g
Starch (polysaccharides)	0.1 g	0.6 g
Sugars (mono- and disaccharides)	4.9 g	29.4 g
Fibre	1.9 g	11.4 g
Protein	0.7 g	4.2 g
Micron	utrients	
Vitamin A	0	0
Vitamin D	0	0
Vitamin E	0	0
Vitamin K	2 mcg	12 mcg
Vitamin B1 (Thiamine)	0.15 mg	0.9 mg
Vitamin B2 (Riboflavin)	0	0
Vitamin B3 (Niacin)	1.2 mg	7.2 mg
Folate	31 mcg	186 mcg
Vitamin B12	0	0
Vitamin C (Ascorbic acid)	31 mg	186 mg
Calcium	53 mg	318 mg
Iron	0.1 mg	0.6 mg
Sodium (Salt)	15 mg	90 mg
Fluoride	0	0
lodine	0	0
Phosphorus	40 mg	240 mg
Potassium	170 mg	1020 mg
Magnesium	9 mg	54 mg
g – grams, mg – milligrams, mcg – micrograms		

Nutrition

Health Benefits:

Swede is rich in sulfur comp may help to prevent cancer as well as some group B vital which boosts the immune s may be enjoyed by most pe potatoes for diabetics, beca starch or sugar, which woul levels. It provides insoluble bowel movements.

Allergy and Health Risks:

Excessive consumption may cause allergic reactions in the spinach.

Alte:

For the texture and colour For colour, texture and fla root or turnip.

For crunchiness, substitute even water chestnuts).

Cooking Uses:

- Cook and mash to se
- Dice or grate to add
- Roast or steam to ser

COPYRIGHT **PROTECTED**

CION



Raw and grated can

ROOT VEGETABLES (CARROT, PARSNIP, CELERI TASK SHEET

1.

2.

•••••			
heck the Reference %) is provided by			
Nutritional value: typical value	Reference Nutrient Intake for teenage boys	Reference Nutrient Intake for teenage girls	100 g of
Energy			
	I	Macror	nutrients
Fat			
Carbohydrates			
Starch (polysaccharides)			
Sugars (mono- and			
disaccharides)			
Fibre			
Protein			
Vitamin A	I	Micron	utrients
Vitamin D			
Vitamin B1 (Thiamine)			
Vitamin B2			
(Riboflavin)			
/itamin B3 (Niacin)			
Folate			
Vitamin B12			
Vitamin C (Ascorbic			
acid) Calcium			
ron			
Sodium (Salt)			
odine			
Phosphorus			
Potassium			
rotassiuiii			
Magnesium			

NSPECTION COP

COPYRIGHT **PROTECTED**



Design a soup using one of the root vegetables listed. Then design a skill equipment used (and techniques or skills required), the cooking method preparation of the vegetables.

14. BELL PEPPER / SWEET



What is It?

Firm, red, yellow or green vegetable in the shape of a bell, emultiple seeds. Red bell peppers are used to make paprika used to make chilli because of their high level of capsaicin makes them spicy and hot).

Common Cuisines:

Peppers are native to Mexico and South America, but were transferred to Europe in the fifteenth century and have gained popularity since.

Nutritional Information:

These values may differ between similar products. The information below is for red pepper.

Nutritional value: typical value	Per 100 g	Per 1 medium pepper (120 g)
Energy	31 kcal	37.2 kcal
	utrients	1000
Fat	0.3 g	0.36 g
Saturated fats	0.027 g	0.032 g
Monounsaturated fats	0.003 g	0.004 g
Polyunsaturated fats	0.04 g	0.05 g
Carbohydrates	6 g	7.2 g
Starch	0	0
(polysaccharides)		
Sugars (mono- and	4.2 g	5.04 g
disaccharides)		
Fibre	2.1 g	2.52 g
Protein	1 g	1.2 g
Micron	utrients	
Vitamin A	157 mcg	188 mcg
Vitamin D	0	0
Vitamin E	1.58 mg	1.89 mg
Vitamin K	4.9 mcg	5.9 mcg
Vitamin B1 (Thiamine)	0.054 mg	0.06 mg
Vitamin B2 (Riboflavin)	0.085 mg	0.1 mg
Vitamin B3 (Niacin)	1 mg	1.2 mg
Folate	46 mcg	55 mcg
Vitamin B12	0	0
Vitamin C (Ascorbic acid)	128 mg	153.6 mg
Calcium	7 mg	8.4 mg
Iron	0.43 mg	0.52 mg
Sodium (Salt)	4 mg	4.8 mg
Fluoride	0	0
lodine	3 mcg	3.6 mcg
Phosphorus	26 mg	31.2 mg
Potassium	211 mg	253 mg
Magnesium	12 mg	14 mg
g – grams, mg – milligrams, m		

Storage:

Peppers should be temperature of aro kitchen towel and sunwashed peppers and refrigerate for usefrigeration can cause

Nutrition

Health Benefits:

Red pepper is a great source important for boosting the ingestion of iron and skin recontains beta carotene, necessity healthy skin. It contains little appropriate for people with quite high levels of vitamin clotting of blood.

Allergy and Health Risks:

Sweet pepper may cause all people allergic to birch pol

Alte

For colour and crunchines
For the tangy flavour, repl

Cooking Uses:

- **©** Chop to add to stews
- **Dice** to use in soups an salads and sandwiches
- Stuff and bake as a n
- Grill or roast to serve
- **Dehydrate** into a pow
- Grill and blend into a pancakes, as well as o

OPYRIGHT

CION



BELL PEPPER / SWEET PEPPER - T

1. Indicate the differences in nutritional value between red pepper and g McCance and Widdowson's 'Composition of foods' database available

Red sweet pepper	Gree

2.	Sweet pepper is very popular in Mexican cuisine – but not only Mexica which use sweet pepper as a staple food. [Area 5]

Extension [Area 5 Area 6]

Research information about various kinds of pepper and create a poster from. You can also prepare a tasting panel for various kinds of pepper.

INSPECTION COPY



15. POTATO



What is It?

Starchy, tuberous vegetable with a brown skin, usual shape. Potatoes are a very versatile ingredient, since variety of dishes which can be prepared from them.

Common Cuisines:

Staple food in many countries, such as Russia (used to make pancakes and vodka), Germany (famous potato salad) and the United Kingdom (jacket potatoes). Although they originated in South America, nowadays almost 70% of the world's consumption of potatoes takes place in Asia.

Sto Sto in a mou

Nutritional Information:

These values may vary.

Nutritional value: typical value	Per 100 g	Per 1 small potato (90 g)
Energy	77 kcal	69.3 kcal
	utrients	T
Fat	0.09 g	0.081 g
Saturated fats	0.025 g	0.0225 g
Monounsaturated fats	0.002 g	0.0018 g
Polyunsaturated fats	0.042 g	0.0378 g
Carbohydrates	17.5 g	15.75 g
Starch (polysaccharides)	15.3 g	13.77 g
Sugars (mono- and disaccharides)	0.82 g	0.738 g
Fibre	2.1 g	1.89 g
Protein	2.05 g	1.845 g
Micron	utrients	
Vitamin A	0	0
Vitamin D	0	0
Vitamin E	0	0
Vitamin K	2 mcg	1.8 mcg
Vitamin B1 (Thiamine)	0.081 mg	0.073 mg
Vitamin B2 (Riboflavin)	0.032 mg	0.029 mg
Vitamin B3 (Niacin)	1.06 mg	0.95 mg
Folate	15 mcg	13.5 mcg
Vitamin B12	0	0
Vitamin C (Ascorbic acid)	20 mg	18 mg
Calcium	12 mg	10.8 mg
Iron	0.81 mg	0.73 mg
Sodium (Salt)	6 mg	5.4 mg
Fluoride	0	0
lodine	1 mcg	0.9 mcg
Phosphorus	57 mg	51.3 mg
Potassium	425 mg	382 mg
Magnesium g – grams, mg – milligrams, m	23 mg	21 mg

Nutrition

Health Benefits:

Potatoes are the main sour many people around the work to support healthy bones, for nervous system and vitaminare very high in potassium, blood pressure and conduct potato provides over 10% of are low in sodium and protefor people with kidney disease.

Allergy and Health Risks:

Raw potatoes are toxic and Cooked potatoes are high is contribute to weight gain a high glycaemic index, which sugar levels very quickly and by diabetics.

Alte

For the texture, use sweet processes for colour and texture, use if you are looking for a star groats or quinoa.

Cooking Uses:

- Mash, fry, roast or b
- Stuff and bake to eat
- **Boil or steam** to use
- **Boil and mash** to use
- **Extract the starch** to sweet sauces
- Roast whole with skin serve as jacket potato to eat as a snack
- Grate to make potato

COPYRIGHT PROTECTED



16. SWEET POTATO



What is It?

Longitudinal tuberous vegetable with a hard, orange is sweet in taste. The flesh is usually very hard and cr

Common Cuisines:

Sweet potatoes are a staple food for the poor in the Philippines, as they are easier and cheaper to grow than rice. In the USA, candied sweet potatoes are served for Thanksgiving.

Nutritional Information:

These values may vary.

		1	
Nutritional value:	- 100	Per 1	
typical value	Per 100 g	potato	
		(130 g)	
Energy	86 kcal	112 kcal	
Macron	utrients	T	
Fat	0.05 g	0.07 g	
Saturated fats	0.018 g	0.023 g	
Monounsaturated fats	0.001 g	0.001 g	
Polyunsaturated fats	0.014 g	0.018 g	
Carbohydrates	20.12 g	26.16 g	
Starch	12.65 g	16.45 g	
(polysaccharides)			
Sugars (mono- and	4.18 g	5.43 g	
disaccharides)			
Fibre	3.0 g	3.9 g	
Protein	1.57 g	2.04 g	
Micron	utrients		
Vitamin A	709 mcg	922 mcg	
Vitamin D	0	0	
Vitamin E	0.26 mg	0.34 mg	
Vitamin K	1.8 mcg	2.3 mcg	
Vitamin B1 (Thiamine)	0.078 mg	0.1 mg	
Vitamin B2 (Riboflavin)	0.061 mg	0.079 mg	
Vitamin B3 (Niacin)	0.557 mg	0.72 mg	
Folate	11g	14 mg	
Vitamin B12	0	0	
Vitamin C (Ascorbic	2.4 mg	3.1 mg	
acid)			
Calcium	30 mg	39 mg	
Iron	0.61 mg	0.79 mg	
Sodium (Salt)	55 mg	72 mg	
Fluoride	-	-	
Iodine	2 mcg	2.6 mcg	
Phosphorus	47 mg	61 mg	
Potassium	337 mg	438 mg	
Magnesium	25 mg	32 mg	
g – grams, mg – milligrams, mcg – micrograms			

Nutrition

Health Benefits:

Sweet potatoes provide large beta carotene, necessary for membrane regeneration are rich in fibre, which supports. They are also rich in vitamin and supports fertility.

Allergy and Health Risks:

Sweet potatoes are quite he best not to include them in who are trying to lose weight of sodium, which needs to especially for people with he Sweet potatoes rarely cause reaction does occur, it is not

Alte

For texture and volume, u For colour and sweetness squash.

Cooking Uses:

- Mash (purée) to serve
- Dice or slice to add to
- **Roast or fry** to eat as chips or crisps)
- **Boil and mash** to pre
- **Boil and mash** to use etc.

COPYRIGHT PROTECTED

CION



POTATO AND SWEET POTATO - TAS

1.	What is the definition of a staple food? [Area 1]
2.	List five staple foods of the United Kingdom. [Area 1]
3.	Research and list countries where sweet potatoes are produced. Explain potatoes to the United Kingdom can affect the environment. [Area 5]
4	
Ē	xtension [Area 3] Design a poster (using the Ingredients Cards to help you) that highlight eating sweet potatoes over white potatoes.

INSPECTION COPY



17. CABBAGE



What is It?

Leafy, round plant of many varieties, such as savoy, passprouts. Cabbage is closely related to broccoli and causthey belong to the cruciferous family.

Common Cuisines:

Different varieties of cabbage are popular around the world – bok choi in China, kimchi in Vietnam, Brussel sprouts in the UK... In many European countries (such as Germany, France and Poland) cabbage is soured (pickled) to obtain sauerkraut – a very sour product full of probiotic bacteria.

Nutritional Information:

These values may differ between similar products.

		,
Nutritional value: typical value	Per 100 g	Per 1 cup of shredded cabbage (70 g)
Energy	25 kcal	18 kcal
Macro	nutrients	
Fat	0.1 g	0.07 g
Saturated fats	0.034 g	0.024 g
Monounsaturated fats	0.017 g	0.012 g
Polyunsaturated fats	0.017 g	0.012 g
Carbohydrates	5.8 g	4.06 g
Starch (polysaccharides)	0	0
Sugars (mono- and disaccharides)	3.2 g	2.24 g
Fibre	2.5 g	1.8 g
Protein	1.28 g	0.9 g
Micro	nutrients	
Vitamin A	5 mcg	4 mcg
Vitamin D	0	0
Vitamin E	0.15 mg	0.10 mg
Vitamin K	76 mcg	53.2 mcg
Vitamin B1 (Thiamine)	0.061 mg	0.043 mg
Vitamin B2 (Riboflavin)	0.04 mg	0.028 mg
Vitamin B3 (Niacin)	0.234 mg	0.164 mg
Folate	43 mcg	30 mcg
Vitamin B12	0	0
Vitamin C (Ascorbic acid)	36.6 mg	25.6 mg
Calcium	40 mg	28 mg
Iron	0.47 mg	0.33 mg
Sodium (Salt)	18 mg	13 mg
Fluoride	1.0 mcg	0.7 mcg
lodine	2 mcg	1.4 mcg
Phosphorus	26 mg	18 mg
Potassium	170 mg	119 mg
Magnesium	12 mg	8 mg
g – grams, mg – milligrams,		ırams

Nutritiona

Health Benefits:

Cabbage is rich in vitamin K (new folate and vitamin C (100 g provantioxidants and polyphenols, and ageing. Phytosterols in call levels in the blood and prevent

Sauerkraut – which is becoming Britain – is a rich source of vitae health due to high levels of proproper functioning of the gut. Cabbage is low in calories, so calorie diet.

Allergy and Health Risks:

Cabbage is rich in sulfur compound wind. Raw cabbage may all which may be harmful – espectional diseases. Sauerkraut is high in avoided by people on a low-scribing disease).

Alte

For white colour and similar For green colour and texture chard, arugula or collard.

Cooking Uses:

- Raw, shredded in salads
- Shred and simmer or standishes such as colcannor
- **Divide into leaves and** vegetables, and then sim
- Shred and cook with head dish
- **Pickle** to make sauerkra or stuffing
- **Blend into a juice** for us

SPECTION COPY



18. CAULIFLOWER



What is It?

Cauliflower is part of the cruciferous family. The edible partial inflorescence – a group of flowers arranged on a stem. It colourful varieties (including white, purple and green).

Common Cuisines:

Cauliflower is a popular ingredient in Europe, where it is used to prepare many dishes, such as cauliflower cheese in the UK. It is also used in India where it was introduced during the period of British colonialism. There are many varieties of cauliflower, each originating from a different country.

i b st

Nutritional Information:

These values may differ between similar products.

Nutritional value: typical value	Per 100 g	Per 1 floret (13 g)
Energy	25 kcal	12 kcal
Macron	utrients	
Fat	0.28 g	0.04 g
Saturated fats	0.13 g	0.017 g
Monounsaturated fats	0.034 g	0.004 g
Polyunsaturated fats	0.031 g	0.004 g
Carbohydrates	4.97 g	0.65 g
Starch (polysaccharides)	0.2 g	0.026 g
Sugars (mono- and disaccharides)	1.91 g	0.25 g
Fibre	2.0 g	0.3 g
Protein	1.92 g	0.25 g
Micron	utrients	
Vitamin A	0	0
Vitamin D	0	0
Vitamin E	0.08 mg	0.01 mg
Vitamin K	15.5 mcg	2 mcg
Vitamin B1 (Thiamine)	0.05 mg	0.007 mg
Vitamin B2 (Riboflavin)	0.06 mg	0.008 mg
Vitamin B3 (Niacin)	0.507 mg	0.066 mg
Folate	57 mcg	7 mcg
Vitamin B12	0	0
Vitamin C (Ascorbic acid)	48.2 mg	6.3 mg
Calcium	22 mg	3 mg
Iron	0.42 mg	0.05 mg
Sodium (Salt)	30 mg	4 mg
Fluoride	1 mcg	0.1 mcg
lodine	0	0
Phosphorus	44 mg	6 mg
Potassium	299 mg	39 mg
Magnesium	15 mg	2 mg
g– grams, mg – milligrams, r	ncg – microgran	าร

Nutrition

Health Benefits:

Cauliflower is a source of filst and blood sugar and cholest blood clotting) and vitamin contains phytosterols – substitute cholesterol levels in the bloop polyphenols (antioxidants) at risk of developing certain cast

Allergy and Health Risks:

Cauliflower is rich in purines broken down, can form uric gall bladder and kidney stor cruciferous vegetables, it may to high levels of sulfur comp

Alte

For similar texture, but more The colour and texture of replaced by potatoes or celes

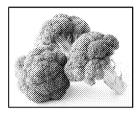
Cooking Uses:

- **(©) Keep raw** to eat as a s
- Steam or boil to serv
- **Bake** in a sauce (e.g. caside or main dish
- Simmer or stew to m
- **Fry** in batter or bread
- Roast to eat as a mair
- Grind in a food process base or biscuits
 - Cut into pieces and a gratins

COPYRIGHT PROTECTED



19. BROCCOLI



What is It?

Another member of the cruciferous family, with edible greateste of broccoli may be perceived as bitter due to high

Common Cuisines:

Since broccoli was first grown in Italy, it is most widely used in Europe. In the eighteenth century it was introduced to Great Britain, where it quickly became a staple food.

Nutritional Information:

These values may differ between similar products.

These values may affer b		ar produces.
Nutritional value: typical value	Per 100 g	Per 1 stalk (150 g)
Energy	34 kcal	51 kcal
Macror	nutrients	
Fat	0.37 g	0.56 g
Saturated fats	0.039 g	0.059 g
Monounsaturated fats	0.011 g	0.017 g
Polyunsaturated fats	0.038 g	0.057 g
Carbohydrates	6.64 g	10.03 g
Starch (polysaccharides)	0	0
Sugars (mono- and disaccharides)	1.7 g	2.57 g
Fibre	2.6 g	3.9 g
Protein	2.82 g	4.26 g
Micron	utrients	
Vitamin A	31 mcg	46 mcg
Vitamin D	0	0
Vitamin E	0.78 mg	1.17 mg
Vitamin K	101.6 mcg	153.4 mcg
Vitamin B1 (Thiamine)	0.071 mg	0.106 mg
Vitamin B2 (Riboflavin)	0.117 mg	0.176 mg
Vitamin B3 (Niacin)	0.639 mg	0.959 mg
Folate	63 mcg	94 mcg
Vitamin B12	0	0
Vitamin C (Ascorbic acid)	89 mg	134 mg
Calcium	47 mg	70 mg
Iron	0.73 mg	1.09 mg
Sodium (Salt)	33 mg	50 mg
Fluoride	-	-
lodine	2 mcg	3 mcg
Phosphorus	66 mg	99 mg
Potassium	316 mg	474 mg
Magnesium	21 mg	32 mg
g – grams, mg – milligrams, r	ncg – micrograr	ns

Nutrition a

Health Benefits:

Broccoli is one of the healthich amounts of micronutrients, so folate, calcium and iron. It is almost 10% of RNI for this supotassium in broccoli help to Moreover, broccoli provides beta carotene, lutein, zeaxani (polyphenols and antioxidani the prevention of cancer, dialonal many other health-related

Allergy and Health Risks:

Consuming large quantities efficacy of certain medicines increasing the risk of bleedincrease the risk of developing stones. The high proportion increased flatulence. Broccopeople with thyroid dysfunctions

Alter

For similar taste and colous sprouts.

For similar texture, use cau

Cooking Uses:

- 🜒 🛮 Simmer, steam, brais
- **Blanch or steam** to u
- **®** Bake under a sauce to
- Shred or divide into dishes
- **®** Blend raw to use in c
- Divide into pieces and
 - Fry with bacon or han to add to scrambled e

SPECTION COPY



CRUCIFEROUS VEGETABLES (CABBAGE, CAL BROCCOLI) - TASK SHEET

1.	Indicate what sized porti for a 16-year-old. [Area 3]	on of cabbage, cauliflower and broccoli will p
2.	What method of heat tra	nsfer is used when: [Area 4]
	a) steaming broccoli?	
	b) roasting cauliflower?	•
	c) boiling cabbage?	
3.	Describe how cooking br	occoli will affect its texture, colour and smell.
4.	Explain why people with	certain medical conditions should not eat crue
4		
		to indicate five ways of using leftover cabbage it on the fridge to support your family in redu

INSPECTION COPY



20. BEETROOT



What is It?

Beetroot is the edible tap root of a beet plant, but its leaves are which gives beetroot its dark purple colour can be extracted for dye and for dyeing fabric. Sugar beet is a variety of beetroot cul animal feed.

Common Cuisines:

Although beetroot is eaten in many countries, including India and Australia, it is a very important part of Eastern European diets, where they are used to prepare a selection of dishes such as soups, salads, condiments or pickles.

Storage

Leaves shoul towel and kep Beetroots sho with the leaves

Nutritional Information:

These values may differ between similar products.

									ľ	۱	l	Į	1		ľ	•	
		_					_				_			_			

Health	Benefits:
Beetroo	ots are a go

re a good source c healthy bowel movements, an formation. But the main healt from betaine – the purple pign antiviral and anticancer agent. homocysteine in the blood, pr the risk of heart failure. Beetro quercetin, which acts as an an

Allergy and Health Risks:

Beetroot is quite high in suga in diabetics. It may also chance there were blood in them (this dangerous). Beetroot contains of developing kidney and gall

Alte

For texture and sweetness, use a For colour, choose red cabbage of acidity).

To replace the leaves, use spinac

Cooking Uses:

- After cooking, remembe - to preserve the deep p
 - Steam whole and unpee
- Grate or slice cooked b well as on canapés
- Keep raw and blend int stand for an hour to avo
- **Grate raw** to use in cake
- Grate raw or cooked to
- Pickle to use in salads an
- Bake or steam and grate with meat
- Grate cooked beetroot condiment for cold cuts
- **Chop** the leaves and **sim**

COPYRIGHT **PROTECTED**



Per 1 beetroot **Nutritional value:** Per 100 a (5 cm typical value diameter) approx. 80 g 43 kcal 35 kcal **Energy** Macronutrients Fat 0.17 g 0.14 g Saturated fats 0.027 g 0.022 g Monounsaturated fats 0.032 g 0.026 g Polyunsaturated fats 0.06 g 0.049 g **Carbohydrates** 9.56 g 7.84 g Starch (polysaccharides) Sugars (mono- and 6.76 g 5.54 g disaccharides) **Fibre** 2.8 g 2.3 g **Protein** 1.61 q 1.32 g Micronutrients Vitamin A 2 mcg 2 mcg Vitamin D 0 0 Vitamin E 0.04 mg 0.03 mg Vitamin K 0.2 mcg 0.2 mcg Vitamin B1 (Thiamine) 0.031 mg 0.025 mg Vitamin B2 (Riboflavin) 0.04 mg 0.033 mg Vitamin B3 (Niacin) 0.334 mg 0.274 mg **Folate** 109 mcg 89 mcg Vitamin B12 0 0 4 mg Vitamin C (Ascorbic 4.9 mg acid) **Calcium** 16 mg 13 mg Iron 0.8 mg 0.66 mg Sodium (Salt) 78 mg 64 mg **Fluoride lodine** 0 **Phosphorus** 40 mg 33 mg **Potassium** 325 mg 260 mg Magnesium 23 mg 18 mg g – grams, mg – milligrams, mcg – micrograms

BEETROOT - TASK SHEET

1.	Explain whether or not beetroot may be used in the dietary treatment	ent
		· • • • • •
2.	Indicate whether beetroot may be perceived as a seasonal vegetab harvesting. [Area 6]	le.
		••••
		· • • • • • • • • • • • • • • • • • • •
		Tas

INSPECTION COPY



3. Cook five small beetroots using five different cooking methods (other than baking used in compare them. What features of beetroot can you assess? Which cooking method produces

Sample	Cooking method used	Dislike a lot	Dislike	Neithe
1				
2				
3				
4				
5				

Overall conclusions:			



21. GREEN PEAS



What is It?

Green peas are actually seeds encased in a crunchy and so peas and pod can be eaten. Dried peas are an excellent so protein alternative for meat.

Common Cuisines:

Dried peas are a staple food in many countries (e.g. throughout Eastern Europe), while sugar snap peas are more popular in Western Europe as a snack. Green peas (*petit pois*) are popular worldwide, and are used as a main ingredient of many meals as well as a side dish.

Sto Fresh in mo the fri can be airtigh also be

Nutritional Information:

These values may vary.

Nutritional value: typical value	Per 100 g	Per 1 cup	
Energy	81 kcal	(145 g) 115 kcal	
	utrients	113 Real	
Fat	0.4 g	0.58 g	
Saturated fats	0.071 g	0.103 g	
Monounsaturated fats	0.035 g	0.051 g	
Polyunsaturated fats	0.187 g	0.271 g	
Carbohydrates	14.45 g	20.95 g	
Starch (polysaccharides)	7.0 g	10.5 g	
Sugars (mono- and disaccharides)	5.67 g	8.22 g	
Fibre	5.7 g	8.3 g	
Protein	5.42 g	7.86 g	
Micron	utrients		
Vitamin A	38 mcg	55 mcg	
Vitamin D	0	0	
Vitamin E	0.13 mg	0.19 mg	
Vitamin K	24.8 mcg	36 mcg	
Vitamin B1 (Thiamine)	0.266 mg	0.386 mg	
Vitamin B2 (Riboflavin)	0.132 mg	0.191 mg	
Vitamin B3 (Niacin)	2.09 mg	3.03 mg	
Folate	65 mcg	94 mcg	
Vitamin B12	0	0	
Vitamin C (Ascorbic acid)	40 mg	58 mg	
Calcium	25 mg	36 mg	
Iron	1.47 mg	2.13 mg	
Sodium (Salt)	5 mg	7 mg	
Fluoride	-	-	
lodine	2 mcg	3 mcg	
Phosphorus	108 mg	157 mg	
Potassium	244 mg	354 mg	
Magnesium	33 mg	48 mg	
g – grams, mg – milligrams, mcg – micrograms			

Nutrition

Health Benefits:

Green peas provide high amount makes them an excellent part of vegetarian, preventing constipated movements. Peas are rich in grouncessary for the healthy function increasing immunity. High levels zeaxanthin in peas help to maintain and work as a potent antioxidan peas are also a good source of pocup of peas provides over 10% considerations.

Allergy and Health Risks:

Peas contains purines, which makidney and gall bladder stones, a (a disease in which uric acid crysalso quite high in sugars, so shoulabetics.

Alter

For similar nutritional value, refer similar texture and sweet. For similar texture and colour

Cooking Uses:

- **Keep raw and fresh** (togside dish
- Boil, simmer or stew (was aspic (meat jelly), salads,
- **©** Cook and blend into a
- Dehydrate or dry to prespatés and stuffing
- **Mash** into a purée
- **Steam** to use in salads, condish

CTION COPY



22. SWEETCORN



What is It?

Also known as sugar corn (in America), sweetcorn is a sugar can be eaten raw, steamed or boiled (bought fresh or can be eaten raw).

Common Cuisines:

Sweetcorn is popular in Brazil, where it is eaten with beans for protein complementation. In the USA it is usually eaten steamed or boiled on the cob, and served as a side dish. Popcorn is a popular snack worldwide.

So From formance

Nutritional Information:

These values may vary.

Nutritional value: typical value	Per 100 g	Per 1 cup (145 g)
Energy	86 kcal	125 kcal
Macror	nutrients	
Fat	1.35 g	1.96 g
Saturated fats	0.325 g	0.471 g
Monounsaturated fats	0.432 g	0.626 g
Polyunsaturated fats	0.487 g	0.706 g
Carbohydrates	18.7 g	27.11 g
Starch (polysaccharides)	5.7 g	8.27 g
Sugars (mono- and disaccharides)	6.26 g	9.08 g
Fibre	2.0 g	2.9 g
Protein	3.27 g	4.74 g
Micron	utrients	
Vitamin A	9 mcg	13 mcg
Vitamin D	0	0
Vitamin E	0.07 mg	0.1 mg
Vitamin K	0.3 mcg	0.4 mcg
Vitamin B1 (Thiamine)	0.155 mg	0.225 mg
Vitamin B2 (Riboflavin)	0.055 mg	0.08 mg
Vitamin B3 (Niacin)	1.77 mg	2.56 mg
Folate	42 mcg	61 mcg
Vitamin B12	0	0
Vitamin C (Ascorbic acid)	6.8 mg	9.9 mg
Calcium	2 mg	3 mg
Iron	0.52 mg	0.75 mg
Sodium (Salt)	15 mg	22 mg
Fluoride	-	-
lodine	0	0
Phosphorus	89 mg	129 mg
Potassium	270 mg	392 mg
Magnesium	37 mg	54 mg
g – grams, mg – milligrams, ı	ncg – microgram	ns

Nutri

Health Benefits:

Sweetcorn is a rich source of for releasing energy from for folate, which is necessary for anaemia. The dietary fibre in movements and avoid constructed of lutein and zeaxant eyesight. Sweetcorn is rich important electrolyte, and muscle contractions and her

Allergy and Health Risks:

Sweetcorn is calorific and couple avoided by diabetics and It can also cause digestive oversensitivity (as in irritable second most genetically mosome people may choose reasons.

Alte

For texture and sweetness
For colour and crunchiness
For the texture and taste solutions or lentils.

Cooking Uses:

- **Eat raw** as a snack of burgers
- Freeze, can or pickland curries, stir-fries
- **Boil**, roast or steam
- Steam or boil to ad tortillas, or sauces (s
- **Toast dry kernels** to be used as a garnish

COPYRIGHT PROTECTED



23. GREEN BEANS



What is It?

Also known as snap beans (in America), these are bright seans. Green beans may have a fibrous string, which has cooking (otherwise it will get stuck between your teeth!).

Common Cuisines:

Green beans are eaten worldwide. In the USA they are used to prepare green bean casserole, while in Japan they are made into tempura. They are also very popular in European and Asian cuisines – usually served as a side dish.

Nutritional Information:

These values may vary.

Nutritional value: typical value	Per 100 g	Per 1 cup (130 g)
Energy	31 kcal	40.3 kcal
Macron	utrients	
Fat	0.22 g	0.29 g
Saturated fats	0.05 g	0.065 g
Monounsaturated fats	0.01 g	0.013 g
Polyunsaturated fats	0.113 g	0.15 g
Carbohydrates	6.97 g	9.06 g
Starch (polysaccharides)	0.88 g	1.14 g
Sugars (mono- and disaccharides)	3.26 g	4.24 g
Fibre	2.7 g	3.5 g
Protein	1.83 g	2.38 g
Micron	utrients	
Vitamin A	35 mcg	46 mcg
Vitamin D	0	0
Vitamin E	0.41 mg	0.53 mg
Vitamin K	43 mcg	55.9 mcg
Vitamin B1 (Thiamine)	0.082 mg	0.107 mg
Vitamin B2 (Riboflavin)	0.104 mg	0.135 mg
Vitamin B3 (Niacin)	0.734 mg	0.954 mg
Folate	33 mcg	43 mcg
Vitamin B12	0	0
Vitamin C (Ascorbic acid)	12.2 mg	15.9 mg
Calcium	37 mg	48 mg
Iron	1.03 mg	1.34 mg
Sodium (Salt)	6 mg	8 mg
Fluoride	19 mcg	24.7 mcg
lodine	2 mcg	2.6 mcg
Phosphorus	38 mg	49 mg
Potassium	211 mg	274 mg
Magnesium	25 mg	32 mg
g – grams, mg – milligrams, mcg – micrograms		

Nutrition a

Health Benefits:

Green beans are a tasty and micronutrients such as folateniacin and calcium. They also fluoride, necessary for the prenamel. Green beans contain polyphenols, which help to kinds of bean, green beans any flatulence, and may be FODMAP diet (a special dies sufferers). A cup of green befor magnesium, necessary for

Allergy and Health Risks:

.....

Green beans contain a certa build up into kidney or gall

Alte

For the texture and colour For colour and texture, chosnaps.

Cooking Uses:

- If you use fresh green stems and strings
- **Boil or steam** to use a variety of additives to breadcrumbs, butter,
- **©** Cook in soups, stews
- Steam or pickle to use burgers
- **Wrap** in bacon and **st**⊗
- Chop and add to stew

SPECTION COPY



GREEN PEAS, SWEETCORN AND GREEN BEAN

1.	Compare the nutritional values of green peas, sweetcorn and green be three vegetables is best used in a high fibre diet. [Area 3]
2.	Explain why vegetables have to be blanched before freezing. [Area 4, skill 2]
3.	Depending on the country or region in which they are used, vegetable in different ways. Indicate how this applies to sweetcorn. [Area 5]
4	
-	Extension [Area 4] Cook fresh green beans using three different methods, e.g. boiling, stea
t	hen compare how each cooking method affected the appearance, color of the beans.

INSPECTION COPY



24. SPINACH



What is It?

Dark green leaves originating in Asia. Baby spinach has swhile the leaves of mature spinach are thicker and leather

Common Cuisines:

Spinach is popular in Indian cuisine, where it is used to prepare curries and bhajis. In the USA it is usually served steamed as a side dish. In Italy it is used to make stuffing for pasta (e.g. cannelloni and ravioli)

St Fre kitc fride can

Nutritional Information:

These values may vary.

Nutritional value: typical value	Per 100 g	Per handful (30 g)
Energy	23 kcal	7 kcal
Macror	nutrients	
Fat	0.39 g	0.12 g
Saturated fats	0.063 g	0.019 g
Monounsaturated fats	0.01 g	0.003 g
Polyunsaturated fats	0.165 g	0.05 g
Carbohydrates	3.63 g	1.09 g
Starch (polysaccharides)	-	-
Sugars (mono- and disaccharides)	0.42 g	0.13 g
Fibre	2.2 g	0.7 g
Protein	2.86 g	0.86 g
Micron	utrients	
Vitamin A	469 mcg	141 mcg
Vitamin D	0	0
Vitamin E	2.03 mg	0.61 mg
Vitamin K	482.9 mcg	144.9 mcg
Vitamin B1 (Thiamine)	0.078 mg	0.023 mg
Vitamin B2 (Riboflavin)	0.189 mg	0.057 mg
Vitamin B3 (Niacin)	0.724 mg	0.217 mg
Folate	194 mcg	58 mcg
Vitamin B12	0	0
Vitamin C (Ascorbic acid)	28.1 mg	8.4 mg
Calcium	99 mg	30 mg
Iron	2.71 mg	0.81 mg
Sodium (Salt)	79 mg	24 mg
Fluoride	-	-
lodine	2 mcg	0.6 mcg
Phosphorus	49 mg	15 mg
Potassium	558 mg	167 mg
Magnesium	79 mg	24 mg
g – grams, mg – milligrams, mcg – micrograms		

Nutritio

Health Benefits:

Spinach is a great source of building healthy red blood and vitamin C, which increase provides high doses of vitablood clotting. Very high an and zeaxanthin help to make as antioxidants, lowering the Spinach is also an excellent helps to balance blood prefor proper muscle contracts.

Allergy and Health Risks:

Spinach contains a lot of orisk of kidney stones and we disease in which uric acid creausing swelling and pain) impairing its absorption in

Alte

For the colour and texture use sorrel.

For similar colour and texarugula, beetroot leaves, ro

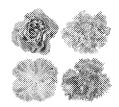
Cooking Uses:

- Spinach contains oxalic as body, so it's best to mix it milk, cream or cheese
- Keep fresh and raw to aSteam or simmer with a
- Steam and blend to ma stuffing for dumplings are
- M Add whole or chopped
- Blend raw to make a jui milk, yogurt or another ca

COPYRIGHT PROTECTED



25. LETTUCE



What is It?

Lettuce is a leafy vegetable used especially in salads. The of lettuce, which differ in colour (usually green, but may a shape of the leaves. Lettuce is made up of 95% water and considered a useful source of macronutrients in a diet, but water and micronutrients.

Common Cuisines:

Lettuce is usually the base of most popular salads, such as Caesar salad and salade niçoise or simply served sprinkled with vinaigrette sauce.

Stor Wrap i sprinkle and sto perishal

Nutritional Information:

These values may vary.

Nutritional value:			
typical value	Per 100 g	serving	
	15 kcal	(36 g) 5 kcal	
Energy	nutrients	J KCai	
Fat	0.15 g	0.05 g	
Saturated fats	0.13 g	0.007 g	
Monounsaturated fats	0.02 g	0.007 g	
Polyunsaturated fats	0.000 g	0.002 g	
Carbohydrates	2.87 g	1.03 g	
Starch	0	0	
(polysaccharides)	"		
Sugars (mono- and	0.78 g	0.28 g	
disaccharides)	0.78 g	0.28 g	
Fibre	1.3 g	0.5 g	
Protein	1.36 g	0.49 g	
Micron	utrients	1 3	
Vitamin A	370 mcg	133 mcg	
Vitamin D	0	0	
Vitamin E	0.22 mg	0.08 mg	
Vitamin K	126.3 mcg	45.5 mcg	
Vitamin B1 (Thiamine)	0.07 mg	0.025 mg	
Vitamin B2 (Riboflavin)	0.08 mg	0.029 mg	
Vitamin B3 (Niacin)	0.375 mg	0.135 mg	
Folate	38 mcg	14 mcg	
Vitamin B12	0	0	
Vitamin C (Ascorbic	9.2 mg	3.3 mg	
acid)			
Calcium	36 mg	13 mg	
Iron	0.86 mg	0.31 mg	
Sodium (Salt)	28 mg	10 mg	
Fluoride	-	-	
lodine	1 mcg	0.3 mcg	
Phosphorus	29 mg	10 mg	
Potassium	194 mg	70 mg	
Magnesium	13 mg	5 mg	
g – grams, mg – milligrams, mcg – micrograms			

Nutrition

Health Benefits:

The main benefit of eating water – an underestimated be impossible to survive. Lebeta carotene, lutein and zantioxidants. Lettuce also cwhich lower LDL cholesterd rich in quercetin (another a of developing cancer and coin calories and may be eater

Allergy and Health Risks:

Allergy to lettuce is very raccause side effects or digest be heavily polluted with pe

Alte

For the green colour and arugula, spinach, sorrel or

Cooking Uses:

- **Keep raw and shred** sandwiches, burgers, to
- **Wrap** to use instead of snacks (finger foods a
- **Wrap and stuff** with or anything else and s
- Blend into a juice, sm



26. CELERY



What is It?

Long, light green, juicy stem with small leaves on top white part growing under the ground) is called celeriavegetable. Celery seeds may be eaten whole or ground

Common Cuisines:

In 1893, celery was used to create the famous Waldorf salad in the Waldorf Astoria hotel in New York City, USA. In Europe, celery has gained popularity as a refreshing snack and ingredient of healthy drinks and smoothies.

Storage:

Chopped ce a week if wra (shiny side ou celery sticks s

Nutritional Information:

These values may differ between similar products.

Nutritional value: typical value	Per 100 g	Per 1 stalk (65 g)
Energy	16 kcal	10 kcal
Macror	nutrients	
Fat	0.17 g	0.11 g
Saturated fats	0.042 g	0.027 g
Monounsaturated fats	0.032 g	0.021 g
Polyunsaturated fats	0.079 g	0.051 g
Carbohydrates	2.97 g	1.93 g
Starch (polysaccharides)	0	0
Sugars (mono- and disaccharides)	1.34 g	0.87 g
Fibre	1.6 g	1 g
Protein	0.69 g	0.45 g
Micron	utrients	
Vitamin A	22 mcg	14 mcg
Vitamin D	0	0
Vitamin E	0.27 mg	0.18 mg
Vitamin K	29.3 mcg	19 mcg
Vitamin B1 (Thiamine)	0.021 mg	0.014 mg
Vitamin B2 (Riboflavin)	0.057 mg	0.037 mg
Vitamin B3 (Niacin)	0.32 mg	0.208 mg
Folate	36 mcg	23 mcg
Vitamin B12	0	0
Vitamin C (Ascorbic acid)	3.1 mg	2 mg
Calcium	40 mg	26 mg
Iron	0.2 mg	0.13 mg
Sodium (Salt)	80 mg	52 mg
Fluoride	4 mcg	2.6 mcg
lodine	0	0
Phosphorus	24 mg	16 mg
Potassium	260 mg	166 mg
Magnesium	11 mg	7 mg

Nutrition

Health Benefits:

Comprising over 95% water, especially on hot, sunny day provides water-soluble vitant well as calcium and vitamin quite rare among vegetables amounts of beta carotene and antioxidants to help prevent inflammatories. It is also very in large quantities, even by personners.

Allergy and Health Risks:

Celery is a strong allergen, as from other foods to avoid contains also quite rich in sodium, so by people with hypertension

Alte

For the crunchy texture, use For the colour and flavour Instead of the leaves, use p

Cooking Uses:

- Chop raw to use intermediate Waldorf salad or any @:
- Chop and fry to use i
- **Blend** to make juices
- **Chop fresh** and serve dips or hummus
- (Chop the leaves and make a pesto sauce
- Sauté in butter with a mirepoix
- Grind celery seeds to pickles and marinades

COPYRIGHT PROTECTED



LEAFY GREENS (SPINACH, LETTUCE AND CELE

1.	List five dishes which contain spinach. Make sure each of them comes specific to a different cuisine. [Area 5]
2.	Assess the nutritional value of a salad made with 100 g of lettuce, 50 g of Then indicate how it reflects the nutritional needs of a 16-year-old for value of the nutritional needs of a 16-year-old for value of the nutritional needs of a 16-year-old for value of the nutritional needs of a 16-year-old for value of the nutritional needs of a 16-year-old for value of the nutritional needs of a 16-year-old for value of the nutritional needs of a 16-year-old for value of the nutritional needs of a 16-year-old for value of the nutritional needs of a 16-year-old for value of the nutritional needs of a 16-year-old for value of the nutritional needs of a 16-year-old for value of the nutritional needs of a 16-year-old for value of the nutritional needs of a 16-year-old for value of the nutritional needs of a 16-year-old for value of the nutritional needs of a 16-year-old for value of the nutritional needs of a 16-year-old for value of the nutritional needs of a 16-year-old for value of the nutritional needs of a 16-year-old for value of the nutritional needs of the nutrition needs of the nutritional needs of the nutrition needs
3.	Some vegetables contain oxalates – substances which can accumulate or gall bladder stones, as well as rinse calcium out of the body, increas Give an example of such a vegetable, and explain how to prevent the consumption. [Area 3]
4.	List four leafy greens that are similar to spinach and lettuce. [Area 1]
1	
	Extension [Area 4, skill 20] Cook fresh lettuce using three different methods, e.g. boiling, roasting a compare how each cooking method affected the appearance, colour, flatettuce leaves.

INSPECTION COPY



27. OLIVES



What is It?

Olives are the oily fruit of an olive tree, cultivated since are used to make olive oil – one of the most precious and world. Freshly pickled or harvested olive fruits are very oil.

Common Cuisines:

Olives are a staple food in the Mediterranean region, especially in Greece and southern France, where they are eaten whole as snacks as well as in salads and other dishes. Sto Olive brine refrig

Nutritional Information:

These values may vary. Information is given for pickled green olives.

	These values may vary. Information is given for pickl			
Nutritional value: typical value	Per 100 g	Per 1 olive (3 g)		
Energy	145 kcal	4 kcal		
Macror	utrients			
Fat	15.32 g	0.41 g		
Saturated fats	2.029 g	0.055 g		
Monounsaturated fats	11.314 g	0.305 g		
Polyunsaturated fats	1.307 g	0.035 g		
Carbohydrates	3.84 g	0.1 g		
Starch (polysaccharides)	-	-		
Sugars (mono- and disaccharides)	0.54 g	0.01 g		
Fibre	3.3 g	0.1 g		
Protein	1.03 g	0.03 g		
Micron	utrients			
Vitamin A	20 mcg	1 mcg		
Vitamin D	0	0		
Vitamin E	3.81 mg	0.1 mg		
Vitamin K	1.4 mcg	0		
Vitamin B1 (Thiamine)	0.021 mg	0.001 mg		
Vitamin B2 (Riboflavin)	0.007 mg	0		
Vitamin B3 (Niacin)	0.237 mg	0.006 mg		
Folate	3 mcg	0		
Vitamin B12	0	0		
Vitamin C (Ascorbic acid)	0	0		
Calcium	52 mg	1 mg		
Iron	0.49 mg	0.01 mg		
Sodium (Salt)	1556 mg	42 mg		
Fluoride	-	-		
lodine	0	0		
Phosphorus	4 mg	0 mg		
Potassium	42 mg	1 mg		
Magnesium	11 mg	0 mg		
g – grams, mg – milligrams, n	ncg – microgram	s		

Nutrition

Health Benefits:

Olives are quite unique in the rich in fats, especially mone which are necessary for maken membranes and play importanctioning of the nervous also a source of polypheno developing cardiovascular

Allergy and Health Risks:

Olives are very high in sodial avoided by people who have disease. They are also high moderation by people on a content of monounsaturates risk of inflammation.

Alte

For saltiness, use pickled vacualiflower.

For similar texture, try roas

Cooking Uses:

- Pickle to eat a snack of stick with a piece of class
- **Chop** to add to salads sandwiches, tortillas, e
- Add whole to drinks
- **Chop** and add to breasome herbs
- **Blend** into a paste call topping for crackers, can sandwiches
- **Chop** and add to mean stuffing (e.g. for roaster

COPYRIGHT PROTECTED



28. AVOCADO



What is It?

Although, botanically, avocado is a fruit, it's mostly used a known as an alligator pear, an avocado is a large berry of is soft, oily and resemble cucumbers in smell.

Common Cuisines:

Avocado is widely used in Mexico, where it is used to prepare guacamole – now a popular dip worldwide. It is popular in vegetarian and vegan diets as a meat and butter substitute.

Nutritional Information:

These values may vary.

Nutritional value: typical value	Per 100 g	Per 1 avocado (200 g)			
Energy	160 kcal	320 kcal			
Macron	utrients				
Fat	14.66 g	29.32 g			
Saturated fats	2.126 g	4.252 g			
Monounsaturated fats	9.799 g	19.598 g			
Polyunsaturated fats	1.816 g	3.632 g			
Carbohydrates	8.53 g	17.06 g			
Starch (polysaccharides)	0.11 g	0.22 g			
Sugars (mono- and disaccharides)	0.66 g	1.32 g			
Fibre	6.7 g	13.4 g			
Protein	2.00 g	4 g			
Micron	utrients				
Vitamin A	7 mcg	14 mcg			
Vitamin D	0	0			
Vitamin E	2.07 mg	4.14 mg			
Vitamin K	21 mcg	42 mcg			
Vitamin B1 (Thiamine)	0.067 mg	0.134 mg			
Vitamin B2 (Riboflavin)	0.130 mg	0.26 mg			
Vitamin B3 (Niacin)	1.738 mg	3.48 mg			
Folate	81 mcg	162 mcg			
Vitamin B12	0	0			
Vitamin C (Ascorbic acid)	10 mg	20 mg			
Calcium	12 mg	24 mg			
Iron	0.55 mg	1.1 mg			
Sodium (Salt)	7 mg	14 mg			
Fluoride	7 mcg	14 mcg			
lodine	2 mcg	4 mcg			
Phosphorus	52 mg	104 mg			
Potassium	485 mg	970 mg			
Magnesium	29 mg	58 mg			
g – grams, mg – milligrams, mcg – micrograms					

Storage:

Unripe avocados can to three weeks, best k ripening, avocado nee temperature, preferab

Nutrition a

Health Benefits:

Avocados are a great source of folate, vitamin E and niacin. The for building strong tooth enanthe thyroid gland. They are unfibre and unsaturated fatty acissubstances which lower choles cell membrane regeneration, intestosterone and prevent the foreason, they may be used in diseases and hormonal issues. Potassium – one avocado provinutrient!

Allergy and Health Risks:

Avocados are high in fat – so this featen in excess (but this applicause mild allergic reactions (vertically monounsaturated fatty acids reautoimmune inflammatory displayed).

Alte

For texture, use melon.
For aroma, use cucumber.
For mashing (guacamole), try
For salads and sandwiches, relinstead of guacamole, use hull for texture and creaminess is desserts, use frozen banana.

Cooking Uses:

- Mash or blend into guase vegetables, as well as in the second of the
- **Slice** to add to salads, sa
- **Blend** to add to smooth
- Freeze to use as a base
- Slice and fry with scram

SPECTION COPY



OLIVES AND AVOCADO - TASK S

1.	Explain why avocados should or should not be kept next to apples or
2.	Explain why a chopped avocado turns black, and explain how this prochappening. [Area 4]
3.	List three countries in which olives are grown. Can olives be called a lo
4	Assess what percentage of RNI is provided by 10 g of olives (approxim

_		
Ī		7
	τ	J
Γ	Ť	
_		/
	_	_
(
_		
4		
(
7		`
_	_	
-	≺	

4. Assess what percentage of RNI is provided by 10 g of olives (approximate following nutrients for a 16-year-old, and then indicate whether olives year-old's diet. [Area 3]

	RNI for boys	RNI for girls	10 g olives
Fats	115 g	94 g	
Carbohydrates	370 g	302 g	
Proteins	111 g	90 g	
Fibre	25 g	25 g	
Vitamin A	700 mcg	600 mcg	
Sodium	1,600 mg	1,600 mg	

COPYRIGHT PROTECTED

Extension [Area 6]

Try to find two different varieties of avocado, and set up a tasting panel any differences in the tasters' opinions?

Zig Zag Education

ANSWERS

Onion, leek, garlic and asparagus

- 1. Garlic and onion are forbidden in:
 - Some branches of Hinduism some members of ISKCON (Hare Krishn (which garlic assists with) distracts from devotion to Krishna.
 - Additionally, Brahmins cannot eat garlic and onion because they are be believed that they negatively affect the ability to concentrate on meditat
 - **Buddhism** due to the smell, they aren't allowed near the temples.
 - **Sikhism** to avoid overstimulation. They also don't consume garlic in lexcites (as an aphrodisiac) and this is not appropriate in a place of wors
 - Jainism they may cause overstimulation, generating excess heat in the
- 2. Onion is very rich in sulfur compounds. During cutting/chopping, these suband irritate the eyes, causing tears to form. There are many ways of prevention example:
 - Refrigerate the onion for some time so that the essential oils don't evapore chopping.
 - Cover your eyes with goggles so that the compounds cannot get into your
 - Put some tissues into your nose and breathe through your mouth during
 - Use a very sharp knife to reduce the damage to the cells and, therefore,
 - Wet the knife with cold water before cutting the onion.
- 3. Wales; leek and potato soup (or any other national Welsh dish made with lee
- 4. Because it is grown in a different way from white asparagus, green asparagus beta carotene. It also has a more delicate flavour and contains less fibre.
- 5. Students identify one from:
 - Obesity all of these vegetables are low in calories, and can be eaten as combat obesity, as well as forming part of a healthy, balanced diet to pre-
 - Hypertension (high blood pressure) garlic is rich in potassium, which
 - Cancer all of them are high in polyphenols, which are powerful antiox
 - Osteoporosis onion are garlic are rich in calcium, which supports bone
 - Atherosclerosis / coronary heart disease leek and asparagus are rich in which lower blood cholesterol levels and help to prevent the accumulate
 - Anaemia leek and asparagus provide large amounts of folates and sor of red blood cells
 - Bowel cancer and/or diverticulitis asparagus is rich in inulin, which is growth of good microflora, which has proven anticancer properties

Or any other suitable answer.

- 6. The vegetables are best kept in a:
 - cool place preferably a fridge for asparagus and leek, but a cool cupbo onions and garlic
 - dark place to protect them from sunlight (which could destroy the vital sprouting)
 - dry place to prevent spoilage caused by moulds

NSPECTION COPY



7. Answers could include:

- Sweet onion: sweet, mild taste; firm texture after cooking; best for: frying roasted vegetables
- Red onion: gentle aroma; crunchy; best for: eating raw in salads, sauces, make a chutney
- White onion: the crunchiest and sharpest in flavour; best used in salads.
- Yellow onion: all-purpose onion; may be very pungent; great for: roasting in soups and sauces
- Shallot: mild and subtle in flavour; less pungent aroma; great for: pickli

Mushrooms

- Different varieties of mushroom require very specific growth conditions, such warmth
 - As such, they will mostly grow only in locations which meet these criter
 - Most mushrooms grow in the autumn (with a few exceptions), which m
 - They will not grow in other seasons due to the moisture level or temper
- 2. Umami means 'savoury' or 'meaty' and it's a taste caused by reception of gluing to occurs in many food products, such as mushrooms, meat, tomatoes, cheese sauce, seaweed, nuts, broccoli and grapes.
- 3. Students must design three dishes, potentially with the use of different kinds of reliable low in sodium, total fat, saturated fat and trans fats, as these all affect cardiovascular sodium increases blood pressure, whereas fat, saturated fat and trans fats increases
 - The dishes should contain sources of potassium, antioxidants, or dietary fibroressure and cholesterol levels in the blood, and help to reduce the risk of plants.

Tomato

- 1. Tomatoes require warm, sunny weather to grow and ripen.
 - Naturally grown tomatoes are seasonal foods, because they produce fru
 - Tomatoes can also be grown in polytunnels and, as such, can be grown them as non-seasonal.
- 2. The processing of food will affect it in various ways:
 - Drying will reduce the amount of water in tomatoes, and, therefore, so will be evaporated.
 - Blanching as this process is quick, it will not affect the nutritional value
 - Juicing the pulp containing seeds and skin will be left on the membrase fibre and fat-soluble vitamins.
 - Tomato soup long cooking and high temperature will cause some of the vitamin C to degrade.
- Students should name a suitable kind of knife for chopping tomatoes and the provide some advantages or disadvantages of their choice. For example:
 - Vegetable knife clean edge enables a clean cut and less juice being spill
 thin slices; minus: the knife can easily slip and cut the hand of the cook
 - Serrated knife the 'teeth' of the knife can help to avoid slipping and cut safe to use, nicely shaped slices; minus: can cause the tomato to lose more
 - Claw grip: better to use for slicing large tomatoes
 - Bridge hold: best used to halve small tomatoes, such as cherry or date to

INSPECTION COPY



- 4. a) Fresh tomatoes do not have any kind of a date mark indicated (like all other have a date of packaging shown. Accept some already packed fresh tomatos
 - b) Best before
- 5. Tomatoes can be subject to:
 - Enzymic action this will help them to ripen, but can then cause them to
 - Mould and yeast growth this will most likely appear as white, green of surface; may also cause the tomato to become sour

Courgette, pumpkin and cucumber

- 1. The seasons for these vegetables are:
 - Courgette from June to September
 - Pumpkin late October to December
 - Cucumber from June to September, but, thanks to polytunnels, they are
- 2. All of the mentioned vegetables are grown in the UK so can be considered low research whether they are grown in the vicinity.
- 3. Pumpkin, as it has the most iron in general as well as the best ratio of iron to Vitamin C increases iron absorption so more iron would be absorbed from a or a cucumber (theoretically, at least, as many other factors interfere with the
- 4. Students indicate at least two advantages and two disadvantages from:

Advantages

- GM crops facilitate a higher yield, so more food can be grown.
- GM crops can help to alleviate/eliminate hunger.
- GM vegetables can be pest-resistant, so no pesticides would have to be
- GM vegetables can be higher in nutrients, so could help to prevent maln
- GM crops can be grown even in very poor-quality soil or in high moistur naturally occurring varieties wouldn't survive.
- GM vegetables have a longer shelf life and are less prone to spoilage, so losing their nutritional value, flavour or colour.

Disadvantages

- GM crops can lead to the development of resistant pests, which will cause known pesticides will be able to fight them.
- GM plants lower species variety, as the modified seeds are usually more occurring species to weather conditions.
- GM crops have unknown effects on human health.
- GM crops can lead to creating new, resistant species of bacteria and virus
- GM crops can increase antibiotic resistance in microorganisms.
- GM crops can increase the risk of allergies.

Or any other reasonable answer.

Root vegetables (Carrot, parsnip, celeriac and swede)

- 1. Students indicate five dishes which are made mostly from carrot. For examp
 - Carrot and coriander soup
 - Carrot salad with raisins
 - Carrot juice/smoothie
 - Roasted carrots
 - Carrot and parsnip purée
 - Carrot pancakes
 - Carrot cake
 - Or any other suitable dish





2. The values below are approximate, calculated using the nutrition requirements publicised by the C

Nutritional value: typical value	RNI for boys aged 16	RNI for girls aged 16	Carrot 100 g	% RNI for boys	% RNI for girls	Parsnip 100 g
Energy	2,964 kcal	2,414 kcal	41 kcal	1.38	1.70	75 kcal
					Macronutr	ients
Fat	115 g	94 g	0.24 g	0.21	0.26	0.3 g
Carbohydrates	370 g	301.75 g	9.58 g	2.59	3.17	18 g
Starch (polysaccharides)	351.5 g	287 g	1.43 g	0.41	0.50	6.2 g
Sugars (mono- and disaccharides)	18.5 g	15 g	4.74 g	25.62	31.60	4.8 g
Fibre	25 g	25 g	2.8 g	11.20	11.20	4.9 g
Protein	111 g	90 g	0.93 g	0.84	1.03	1.2 g
					Micronutr	ients
Vitamin A	700 mcg	600 mcg	835 mcg	119.29	0.20	0
Vitamin D	10 mcg	10 mcg	0	0.00	0.00	0
Vitamin B1 (Thiamine)	1.1 mg	0.8 mg	0.066 mg	6.00	7.50	0.09 mg
Vitamin B2 (Riboflavin)	1.3 mg	1.1 mg	0.058 mg	4.46	4.06	0.05 mg
Vitamin B3 (Niacin)	18 mg	14 mg	0.99 mg	5.50	0.39	0.7 mg
Folate	200 mcg	200 mcg	19 mcg	9.50	0.05	67 mcg
Vitamin B12	1.5 mcg	1.5 mcg	0	0.00	0.00	0
Vitamin C (Ascorbic acid)	40 mg	40 mg	6 mg	15.00	0.38	17 mg
Calcium	1,000 mg	800 mg	33 mg	3.30	0.00	36 mg
Iron	11.3 mg	14.8 mg	0.3 mg	2.65	0.18	0.6 mg
Sodium (Salt)	1,600 mg	1,600 mg	69 mg	4.31	0.00	10 mg
Iodine	140 mcg	140 mcg	0 mg	0.00	0.00	0 mg
Phosphorus	775 mg	625 mg	35 mg	4.52	0.01	71 mg
Potassium	3,500 mg	3,500 mg	320 mg	9.14	9.14	375 mg
Magnesium	300 mg	300 mg	12 mg	4	4	29 mg



Bell pepper / sweet pepper

1. Students should indicate at least four differences between types: (the comparing the USDA database)

Red sweet pepper	Gre
More vitamin C	Fewer calories, carbo
More vitamin B2	Less fibre
More niacin	More calcium
More folate	More vitamin K
More vitamin A and beta carotene	Contains phytostero
No phytosterols	Contains more antio

Students indicate at least three cuisines which use bell peppers: Hungarian, Spar

Potato and sweet potato

- 1. A staple food is a food product which is basic for a given diet/region/country amounts.
- 2. In the UK, staple foods include:
 - milk
 - meat (such as beef or ham)
 - fish (e.g. mackerel, salmon, pilchards)
 - fruit (such as apples)
 - vegetables (such as carrots and potatoes)
 - beans and lentils
 - cereals (e.g wheat and oats)
 - tea and coffee
- 3. Sweet potatoes are produced mainly in China (Asia), Nigeria and Ugan Tanzania (Africa).
 - Since they aren't grown in the United Kingdom, they have to be import
 - Transport of vegetables for such long distance requires a lot of energy (
 pollution by emitting greenhouse gases and exhaust gases (containing c
 - Because of this, fields alongside main roads are polluted with heavy met (such as carbon dioxide) create a layer around Earth, trapping the warm temperature (contributing to global warming).
 - Additionally, potatoes need to be properly packaged for the duration of production also contributes to greenhouse gas emissions, deforestation pollution afterwards from waste.

Cruciferous vegetables (cabbage, cauliflower and broccoli)

1. Calculated using data from:

https://www.gov.uk/government/uploads/system/uploads/attachment_data/ rni-11dec14.pdf

RNI of vitamin C for a 16-year-old is 40 mg (no difference between sexes). Day will be satisfied with 83 g of cauliflower, 45 g of broccoli or 110 g of cabbage.

- 2. Heat transfer methods used are:
 - a) Convection (and conduction to preheat the water)
 - b) Radiation, convection and conduction
 - c) Conduction and convection

NSPECTION COPY



- 3. Cooking will affect broccoli's:
 - texture (it will soften because fibre will break down)
 - colour (it will become bright green to begin with, but overcooked broccobecause pigments will break down and dissolve in water)
 - smell (it will be more pronounced due to evaporation of sulfur compou
- 4. Students should indicate at least two medical conditions in which cruciferous from:
 - Thyroid disorders due to high amount of iodine, which may disrupt p
 - Irritable bowel syndrome (IBS) due to high amount of fibre and sulfur combowel and cause painful bloating
 - Hypertension because high amount of sodium, especially in sauerkrau
 - Cardiovascular disease because people who take blood-thinning drugs vitamin K
 - Kidney and gall bladder stones because they are rich in purines, which formation of stones

Beetroot

- 1. Yes. Beetroot may be used in the dietary treatment of anaemia, because it pronecessary for proper red blood cell formation. Vitamin C in beetroot may also (bioavailability) of iron, also improving the blood condition.
- 2. Yes. Beetroot is a seasonal plant, usually harvested from late September (sugareten throughout winter.
- 3. Students show their knowledge and skills in using preference testing and set apply various cooking skills.

Green peas, sweetcorn and green beans

- 1. Green peas have the most fibre so are the most suitable of the three vegetable
- 2. Blanching deactivates enzymes in vegetables, which helps to preserve their nu
- 3. For example, in the USA sweetcorn is boiled or steamed on the cob and
 - Also in the USA, dried kernels are roasted to obtain popcorn.
 - In Mexico, kernels are added to stews to add colour and texture, or are are dried and ground to obtain cornflour from which tortillas are made.
 - In Great Britain mini sweetcorns or kernels are steamed and served as a
 - Other suitable responses should be accepted.

NSPECTION COPY



Leafy greens (spinach, lettuce, celery)

- 1. Students indicate five dishes containing spinach, each from a different count
 - spinach and onion bhaji Indian
 - spinach and ricotta ravioli Italian
 - spinach quiche French
 - spinach stir-fry Chinese
 - spinach with peanut sauce West African
- 2. The salad will contain no vitamin D and no vitamin B12.
 - The salad provides 0% RNI for vitamin D and vitamin B12.
- 3. Examples of such a vegetable are spinach and garden sorrel.

 To prevent negative effects of oxalates, they should be accompanied with calcream, cream cheese or cheese, but also sesame seeds or almonds.
- 4. Any four suitable leafy greens, e.g. kale, collard greens, Swiss chard, Chinese

Olives and avocado

- 1. Apples and bananas release ethylene a gas which speeds up the ripening of next to them if we want them to ripen, but not if we plan to store them for a
- 2. This is due to enzymic browning.
 - When we chop fruit or vegetables, their cells are broken down and enzy them come into contact with air.
 - The enzymes are activated by the oxygen from the air and turn phenols vegetables into brown melanin pigment.
 - This can be stopped by adding lemon or lime juice which is one of the
- Olives are mostly produced in the Mediterranean region Spain, Italy, Greek Smaller quantities are grown in the USA, Mexico, Argentina and Chile. For the considered local in these countries, but not in the United Kingdom.
- 4. The RNI is based on:

https://www.gov.uk/government/uploads/system/uploads/attachment_datarni-11dec14.pdf

	RNI for boys	RNI for girls	10 g olives	%
Fats	115 g	94 g	1.53 g	
Carbohydrates	370 g	302 g	0.38 g	
Proteins	111 g	90 g	0.10 g	
Fibre	25 g	25 g	0.33 g	
Vitamin A	700 mcg	600 mcg	2 mcg	
Sodium	1,600 mg	1,600 mg	156 mg	

Students indicate that olives – in moderation – can be consumed as part of a Excessive consumption is not recommended due to high sodium content.



