Physical activity level

The more active a person, the more energy daily tasks, such as waking up, showering Amount of energy needed to perform all exercising, working and shopping.

If you eat more than you need (your PAL is low), you are likely to gain weight.

they need.

active (your PAL is high), then you are likely If you do not eat enough, or you are very to lose weight.

Keep your diet balanced to maintain weight!



Healthy eating

A balanced and varied diet is key to a long life

Healthy foods and snacks may be

- low-fat
- high-fibre

low-sugar

- low-calorie
- or a combination of these. → low-salt

Reasons for choosing them usually include the

Factors influencing

Food choices are driven by many various factors, which are very important when planning diets, meals and menus.

food choice

need to lose weight or maintain health

Food availability

The amount and variety of food depends on:

- → food production possibilities
- transportation and import from other countries

Seasonal foods might be cheaper in their harvesting season, but still available all year round.

Seasonality

season or may be more expensive. Some foods may be unavailable beyond their harvesting

People may prefer seasonal foods for various reasons:

- → locally grown, cheaper, fresher, tastier
- → want to decrease the environmental impact food miles and carbon footprint

Cost of food

The price of food products varies depending on:

Disposable income is the amount of money a family

- → quantity in a package → brand
- → place you're shopping in

offers, meal deals and discounts. may be cheaper if you look out for special convenience stores on most products. Food Supermarkets usually have lower prices than

> Low-income families may choose high-fat and highsugar products since they are usually cheaper than

healthy foods such as fruit or vegetables.

quality, quantity and variety of food which can be The amount of money available determines the can spend on goods such as food and rent.

bought.





Preferences

salty or more bitter foods





sugary foods, while others prefer savoury and will tend to buy Some people have a 'sweet tooth' and tend to choose more



People often like to eat certain foods for enjoyment.

creams or candyfloss at an amusement park or toffee apples for This may include popcorn and fizzy drinks at the cinema, ice Halloween.

These foods tend to be more fatty and sugary than



everyday food.

Time available to prepare food

→ Busy schedules and lack of time

The way in which people live often means they

no time for shopping and cooking

no time for eating busy schedules

- People choose ready-to-eat foods, order in or eat out more
- → People choose simple recipes which don't take too long to

lime of day (in the UK)

snacks and foods which are ready to eat:

portioned fruit and vegetables

sandwiches, salads and soups protein shakes and smoothies regular meals during the day. There is a variety of healthy A healthy lifestyle should include home-cooked food and

- \downarrow Breakfast: sandwiches, cereals; more filling meals are served at weekends or during holidays
- Lunch: pasta, salads, sandwiches or eat out
- Dinner: more demanding foods, soups, stir-fry, curry, pie, order in or eat out



- Food plays a large role on various special occasions. To celebrate, people eat:
- special festive food
- → more fatty or sugary foods than usual

People celebrate with food on various occasions:

- birthdays
- weddings
- tunerals anniversaries
- special events
- religious events



cannot eat any food for a given

permitted.

water and other beverages are period of time. Sometimes Fasting means that a person

$\mathsf{Religion}_{}$ often dictates nutritional regime, indicates what foods can be eaten and when, and what foods should be avoided.

			-		_			_
	Other	Holidays or fasting periods		Don't eat		Eat		
	I-tal means clean, natural, pure	 Ethiopian Christmas (7th Jan) Grounation Day 		SaltMilkCoffeeAlcohol	 Pork and other meat 	 Coconut oil, herbal tea, fruit and juices, vegetables 	• I-tal	Rastafarians
	 Don't kill animals purposefully but would not refuse meat if given 	 Vesak – Buddah's birthday 		Alcohol Meat		A vegetarian diet		Buddhists
	 Halal means permitted, allowed 	Ramadan – month-long fasting period during which Muslims can eat only at night		PorkAlcoholFish and shellfish without scales		Halal food only		Muslims
	Kosher means cleanMatza is a special unleavened bread	Passover Rosh Hashanah Yom Kippur Hanukkah	(00)	Shellfish Pork Meat with dairy		Kosher food only		Jews
	 Cows are sacred animals During Diwali, sweets are given as gifts 	Diwali – festival of lights		Beef Alcohol		Milk A mainly vegetarian diet		Hindus
	Karah Parshad pudding eaten during the holiday	Guru Nanak's birthday		AlcoholKosher or halal foodBeef		A vegetarian diet		Sikhs
chocolate Easter eggs	Many festive foods, usually different for Easter and Christmas; Christmas pudding, hot cross buns,	Lent – period of fasting lasting for 40 days before Easter Easter Christmas		Meat on Fridays	-	 Generally everything, no special restrictions 		Christians

Alcohol consumption is

forbidden by most religions



beliefs

because of their ethical or moral beliefs. People may choose to eat or avoid eating certain products

most natural way possible

No chemicals

No pesticides or herbicides

Plants and animals are grown and reared in the

Organic foods

These may be based on:

- Whether animals or people suffer during food production
- How food is made
- How food production affects the environment



Fairtrade

conditions, prices and wages to farmers and workers Global movement focused on ensuring fair working in developing countries.

- Improves working and living conditions
- Supports education and development



Animal welfare





animals and humane conditions for rearing animals Movement focused on ensuring the well-being of

- How animals are treated
- conditions or protected from diseases How they are treated for medical
- How they are slaughtered
- What their living conditions are like



No GM feed or fertilisers No antibiotics No artificial fertilisers





Carrier of all information about a living organism, in the form of a double helix tightly packed in a cell's nucleus

Part of a DNA strand, which carries specific information

- Improved immunity, reduced need for

- Probably cause morbid obesity





Plants or animals in which DNA has been altered





- More nutrients (e.g. Golden Rice) Higher crops and smaller risk of food shortage
- Unknown health effects





Nitrous oxide

→ Chlorofluorocarbons

warming.

Trap heat around Earth and contribute to global

Food miles

No need for long-distance transportation

Support for local farmers and Fewer food miles and lower Fresher, tastier, cheaper food

carbon emissions

products

Local produce

ı Į ı ı

Distance from a farm to the plate

Carbon footprint

production and transportation of a given product greenhouse gases were emitted during the Indicates how much carbon dioxide and other

Greenhouse gases

Carbon dioxide

Water vapour

Medical conditions

Many people cannot eat certain products because they would cause harm to their bodies.

Food intolerance

Reaction of the digestive tract to a food ingredient

What are the most common intolerances?

Lactose – the sugar naturally occurring in milk Gluten – the protein naturally occurring in wheat, barley, rye and oats

Symptoms and diet

- Food intolerances cause bloating, stomach
- People should avoid eating certain foods or cramps or diarrhoea, but aren't dangerous.

eat them in small amounts only

Food allergy

Reaction of the immune system to a food ingredient

What are the most common allergens?

Nuts, eggs, milk, wheat, fish and shellfish

Symptoms and diet

anaphylactic shock Allergens may cause a severe, life-threatening reaction:



their entire life. People with allergies have to avoid the foods they are allergic to for

Food labelling

Name of the food is important so that butter or butter-like spread people know what is inside the package, e.g.

and fresh meat on fresh, perishable foods such as milk, dairy be harmful to eat food after this date; used Use by - applies to food safety; it may 2

tinned foods such as jams and pasta be changed; used on dried, preserved or Best before - applies to food quality; it is although its flavour, colour or appearance may usually safe to eat the food after this date

portions of food the package contains so that the consumer knows how many compare prices between products, and Quantity is given so that it is easier to

Warnings are given as necessary, e.g. may contain nuts, source of phenylalanine

List of ingredients is shown in descending the smallest amount largest amount to the one which used in order, from the one which is used in the

12

100 g or portion of product and % of GDA it provides.

pieces of glass inside, etc. track where the food comes from in case of Name of the company is important to food spoilage, anaphylactic reactions, 6

track the whole lot and remove it from the spoilage or contamination – it is easier to The lot number is useful in case of food

7

Storage conditions are given if needed, e.g. for freezing refrigerate after opening, suitable œ

the food, without poisoning themselves people to properly prepare and enjoy Instruction for preparation helps 9

case of food poisoning, but also for people who prefer to eat locally produced food Country of origin is important to track in

10

Food legislation authorities

education (e.g. for those who wish to lead a healthy lifestyle).

Proper labelling of food products is important to ensure food safety (e.g. for allergy sufferers) and nutritional





Food Standards Agency

- and the European

Food label: mandatory information

- Name of the food Date marks
- 989 pieces Quantity, e.g. in litres, grams or
- Warnings
- List of ingredients
- The lot number Name and address of the producing, packing or selling company
- Necessary instructions for use or Special storage conditions
- Country of origin
- Allergens

5

88 Nutrition declaration

Allergens – ingredients which may cause an List of allergens which HAVE to be indicated allergic reaction — are shown in bold

Cereals containing gluten: wheat, rye, barley, oats

- Nuts: almond, hazelnut, walnut, cashew, pecan, Brazil, pistachio, macadamia,
- Mustard Queensland nut, e.g. flavourings (almond,

separately.

than when buying them that the price is cheaper indicated products means which buying two or more A type of special offer in

- Sesame, e.g. tahini (sesame)
- Soybeans, e.g. tofu (soya)
- Fish, e.g. cod (fish), salmon (fish)
- Crustaceans: prawns, crayfish, lobster, shrimp
- Molluscs: oyster, squid, cockles, mussels, winkles, scallops, snails, e.g. oyster sauce (molluscs)
- ×××
- Eggs, e.g. powdered yolk (eggs,
- Celery
- x x Sulphur dioxide or sulphites, e.g. Milk, e.g. Cheddar cheese (from milk)

preservative (**sulphur dioxide**,

(red) amounts of sugar, fats, saturated fats, and salt in a portion of a food product Traffic light label may be used to indicate low (green), medium (amber) or high Nutrition declaration informs consumers of the amount of certain nutrients per 0.8g 4% Energy 172k/ 2% 41kcal Fat 1.8g 3% Sugars 2%

Non-mandatory information

0.69

Some food labels may include non-mandatory information, such as a picture of the food, health and nutritional claims or serving suggestions

GDA – guideline

daily amount amount of a

nutrient a persor should eat each avoid under- or over-nutrition day to remain healthy and

Nutritional claim

'low energy', 'low fat', 'sugar free', 'source of Statement regarding nutrient content, e.g.

Health claim

Calcium is needed for the maintenance of benefits of eating a given product, e.g. Statement suggesting potential health healthy teeth and bones

listed in a specific order.. Nutrients have to be

- Fat, inc. saturates Energy
- Carbohydrates, inc.
- Proteins Fibre, if any

sugars

- Salt or sodiun
- minerals Vitamins and



Marketing influences

Various techniques and methods which aim to increase sales and maximise profit

BOGOF

MEAL DEAL

one free) Cbuy one.

> **BUY 1 GET** 1 FREE

of a product means that another pack of Special offer whereby buying one item the same product will be free.

Other versions include 'buy one, get one half price' or 'three for the price of two'.

ADVERTISING

Posters, TV spots, newspaper to promote a product and make it publications and other actions taker desirable for consumers



amounts of a given product, discounts when buying larger

Usually, special offers include

SPECIAL OFFER

free gifts, vouchers, etc.

MEDIA INFLUENCES

shortly before its 'best before' is selling food more cheaply A specific type of special offer

' 'use by' date.

large impact on food choices by using a technique called 'product placement' The television, radio or newspapers may have a

A food product is used by famous actors, movie characters or characters from popular sitcoms to make the food look 'desirable', 'fashionable' and

PEER PRESSURE

e.g. smoking. they tend to follow what's 'cool' in their age group This applies especially to children and teenagers, as



Point of sales

chocolate bars and other such as chewing gum, checkouts, usually containing relatively expensive items Food stand located near

spend a lot of time standing in products more often if they People tend to buy these



POWER

The ability of children to force their parents to buy them sweets, toys

for children. This technique uses pester power to increase sales Food packages are often colourful and eye-catching to make them desirable



which uses specific ingredients, dishes, preparation and cooking methods. Cuisine is a style of cooking characteristic for a given region or country,

> Cuisine may be affected by various factors, such as climate, type of soil British cuisine

available for growing plants, or history.

ingredients, spices and cooking methods, not previously known in the UK. Immigrants and conquerors in the past have brought many new meals

characteristics of cooking Distinctive features and

Main ingredients used, traditional dishes and other factors which distinguish the cuisine from others

Traditional ingredients:

Equipment:

Open fire for roasting, now exchanged

with ovens

Thick ceramic dishes used for stews,

soups and sauces

Tins and moulds for making puddings,

pies and tarts

Beef, lamb, pork, poultry, bacon and

Potatoes, onions, leek, peas, beans,

Equipment and cooking methods

Kitchen utensils, dishes and cooking methods specific for a given cuisine.

Eating patterns

served. This is changing dynamically due to countries – both the time at which they are The meals during the day vary between eaten and the types of meals that are busy lifestyles.

How the food is served – how it appeals to the appetites and tastes of consumers

- Elevenses small, usually sweet snacks eaten
- Brunch eaten before noon instead of breakfast and lunch, usually at weekends or
- roasted meat, vegetables, Yorkshire pudding Lunch – midday meal consisting of a Sunday lunch is more filling and consists of sandwich, salad or soup; traditionally, a
- Afternoon tea eaten in the afternoon, of small snacks, sandwiches, biscuits and consists of a pot of tea or coffee with a range

Frying Poaching Grilling and barbecuing Roasting and baking

- Dinner hot meal eaten in the early evening the main meal of the day
- Supper consumed a bit later than dinner, usually replaces it

may consist of toast with coffee or a bowl of traditionally very filling; nowadays lighter: Breakfast – eaten in the early morning;

- around 11am with a cup of tea or coffee
- during business meetings

Traditional meals and dishes differ depending on the region (see below)

Cooking methods:

Stewing, simmering and braising

Herbs, such as mint and sage

Milk and cheese (e.g. Cheddar, Stilton)

Presentation styles

- the food more appetising. garnish or sauce may be used to make Presentation is usually simple, some
- Meat or fish is served accompanied by potatoes, vegetables and gravy
- Puddings are also served with sauces e.g. custard
- Desserts are served in individual





Traditional and modern variations of recipes

the meal faster, easier and cheaper to cook. medical conditions. Variations help to make busy lifestyles, healthy eating patterns or Traditional recipes can be modified to suit

- Traditional breakfast is replaced with Meats, sausage and bacon can be alternatives, such as soy chunks or tofu products, or substituted with protein exchanged with low-fat or low-salt
- Instead of frying, people may choose to healthier and less fatty roast, grill or dry-fry the food to make it orange juice or a bowl of cereal lighter options, such as toast with jam and
- vegetable oils and spreads Lard and suet may be exchanged for
- New ingredients are introduced to meals of foods as importation allows for a greater variety

raditional foods of Great Britain

England

- Cornish pasty
- Yorkshire pudding
- Lancashire hotpot lamb and
- baked beans, buttered toast, fried calories, contains bacon, sausages,
- egg, fried mushrooms and tomatoes
- Fish and chips
- Sandwiches
- Sunday roast

- English breakfast rich and high in

- Beer and cide
- dried fruit
- Clotted cream, cream tea potatoes
- Cawl meaty broth served with bacon or lamb and vegetables
- Welsh rarebit spiced melted cheese

- vegetable stew topped with mashed
- Bara brith rich yeast bread with Welsh cakes Glamorgan sausage served on toast

- Laver bread stewed laver weed latws popty – potatoes baked with onion under a thick layer of cheese
- Northern Ireland

Scotland

- Colcannon mashed potatoes with kale and cabbage
- Soda bread
- Black pudding sausage made from
- pork fat, blood and oatmeal
- Shepherd's pie
- Irish stew
- Whiskey and been

Irish cream

Oatmeal

- filling

offal and barley

Haggis – sausage made from sheep

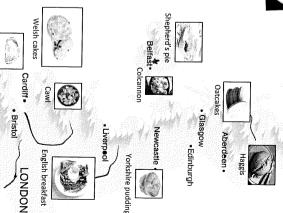
Tatties and herring Kippers – smoked herring Dunlop cheese Scotch broth Porridge

suede (turnip) Neeps and tatties – potatoes with

Whisky and ale

Cornish pasty

Oatcakes, scones Scotch pie – pie with mutton meat Shortbread







For centuries, countries and regions have created a variety of meals, cooking dishes and methods, and even serving and eating patterns, which are characteristic of them Cuisine depends on a region: its culture, religion, climate and weather conditions, and even plant and animal species that live there.



characteristics of cooking Distinctive features and

Main ingredients used, traditional dishes and other factors which distinguish the cuisine from others.

Equipment and cooking methods

Kitchen utensils, dishes and cooking methods specific to a given cuisine.

Breakfast might be rather small and sweet, e.g. usually accompanied by wine

Paellera – shallow frying pan used to make paella

Thick ceramic dishes for stews electric or gas ovens

prepare tagines in Arabic countries Tagine – a dome-shaped clay dish used to

- midday meal In Spain, a siesta (short nap) is taken after the
- Dinner in Spain (cena) and Greece (vradino) is

- In Turkey, hands and mouth are washed before celebrated and a long time is spent eating to be good manners to belch and lick one's and after eating. Traditionally, it was considered

Eating patterns

example, the time of day at which they are served. This is changing dynamically due eaten and the types of meals that are Meals vary between countries; for

soup, main dish, salad, cheese and dessert), meals can have many courses (usually a starter, In Italy and France, especially on large occasions to busy lifestyles.

- eaten quite late after 9pm
- In Morocco and other Arabic countries, meals are

- croissants with jam and coffee

Mediterranean cuisine

Typical meals:

Cooking methods:

Frying

Baking

Simmering and stewing

and dairy

fruits, apricots, herbs (saffron, thyme, oregano, (e.g. in couscous, pasta, semolina), bell peppers, citrus

marjoram), garlic and onion, beans and lentils, milk

and seafood, tomatoes, aubergines, courgettes, wheat Ingredients: olives and olive oil, grapes and wine, fish

ncludes: Italy, France, Spain, Greece, North Africa

Equipment:

Clay ovens used for baking, now exchanged for

- fingers while eating; nowadays it may be

Presentation styles

the appetites and tastes of the consumers. How the food is served – how it appeals to

ingredients only, but they are usually very Most meals are quite simple, consisting of 4–8

- carbonara sauce with pasta appetising, e.g. cream on top of a soup, A sauce may be splashed on top to make it more
- as coriander or parsley Dishes might be garnished with fresh herbs, such
- In Morocco, meals are often served in large clay





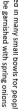
Traditional and modern variations of recipes

medical conditions. Variations help to make the meal faster, easier and cheaper to cook Traditional recipes can be modified to suit busy lifestyles, healthy eating patterns or Traditional meals are quite time-consuming to

- People often choose to eat out or order takemodern, faster to cook meals prepare, so are often exchanged for more
- Thick sauces based on fat and cream may be
- organic foods People more often choose, healthy, natural, exchanged for lighter versions, e.g. yoghurt
- Culinary shows make cooking more trendy and vegetables use of fewer spices and eating more raw In Morocco, more modern cooking includes the

inspire people to cook at home more often





Very colourful dishes

May be garnished with spring onions or herbs Served in many small bowls for people to share

Usually eaten in a nearby canteen or ordered in,

noodles or soup

Breakfast is rather light, may consist of soy milk,

and vegetables

- Chopsticks are provided instead of cutlery
- with a broad selection of meats and vegetables Dinner is large and often eaten in a restaurant, rather light, consists of rice or noodles with meat The use of a knife may be seen as offensive





International cuisines are gaining in popularity Modern lifestyle has caused a dramatic increase Talking is now allowed during the meal – in the

in obesity rates in China

past people rarely spoke while eating

of the table for people to share and try all of Traditionally, meals were served in individual

dishes; nowadays, they are placed in the middle

e.g. pizza

- A hot towel may be provided to clean hands Food is often served and eaten on the floor, while

Foreign meals are eaten more often, such as

American burgers, Korean kimchi, Hawaiian spam

musubi and Chinese ramen

Asian cuisine

rolls, wontons, dumplings, chow mein, sweet and sour with noodles, tofu and stinky tofu, moon cake, spring Traditional meals: steamed or fried rice, chicken soup fish and seafood, eggs, ginger, garlic, sesame and mushrooms, beansprouts, soy, soy sauce, lychee fruit, Chinese cabbage, water chestnuts, bamboo shoots Ingredients: noodles and rice, pork, duck, chicken,

Cooking methods:

Brightly coloured lacquerware and porcelain Cleaver – large, heavy-duty knife used by chefs

dishes used to serve foods

Soup is eaten throughout a meal, not only at the

and Cantonese)

uses different ingredients and spices (e.g. Szechuan Each canton in China has its own regional cuisine and

Equipment:

Chopsticks – used instead of cutlery Wok – deep, rounded pan

Bamboo strainers – used to drain wontons and

dumplings

bakiava, halva

Turkish: börek, pilav, kebab, sheep cheese

tagine, harissa

gazpacho

crepes

Spanish: paella, cured and dried ham, omelette,

Steaming and boiling Grilling

bouillabaisse, selection of cheeses, croissants, French: casserole, ratatouille, fish soup Italian: risotto, pizza, spaghetti, mozzarella,

Morocco: tabbouleh, hummus, bulgur, couscous Greek: moussaka, tzatziki, feta, filo pastry

- Soy sauce is provided for dipping before eating

Meals can be skipped or replaced with light Meat consumption has increased during the last

Foods are often served with rich, thick sauce, e.g. curry Traditionally eaten on low stools or cushions A selection of dishes is served for dinner to share

the middle class

People more often use cutlery to eat, especially

- Food is traditionally eaten with hands, not cutlery
- Food may also be served on banana leaves

family – it is the most important meal of the day Evening meal is usually eaten with the whole Betel leaves may be eaten after the meal to

- - The use of many various spices may also pose a The cuisine is mainly vegetarian which is suitable for nut-allergy sufferers The use of many nuts may need a replacement
- People more often choose to eat out than cook at people who don't enjoy spicy foods risk for allergy sufferers, as well as deterring

*This provides two cuisines, however schools or colleges/students can select any two different cuisines

josh, korma, bhaji, tandoori chicken

Traditional meals: fired paneer, vindaloo curry, rogan

Cooking methods: Deep-frying, frying, roasting

Handi – deep, wide metal cooking dish

India and Central Asia used to roast and bake, typical for Equipment:

Tandoor oven – cylindrical clay oven

energy for the whole day

support digestion

Rich, filling breakfast is important to provide

peanut oil, coconut milk, ghee butter, paneer cheese, Ingredients: pearl millet, rice, lentils, chickpeas, beans, Shaped by colonialism and development of trade

Also differs from region to region

Traditional meals: sushi, tempura, donburi, udon

seaweed, eggs, seasonal foods, green tea, wasabi Ingredients: rice, soya, fish and seafood, noodles

Cooking methods:

Knives – famous for their sharpness Chopsticks – used instead of cutlery

Eating raw fish, vinegared dishes

Deep-frying, grilling and steaming

D

Dinner, usually shared with family or friends

Lunch may be substituted with light snacks

with various sides

Early breakfast, might contain boiled white rice

Typically three meals a day

Equipment:

liquid

Red stewing (cooking with addition of a red-dyed

Steaming and boiling Stir-frying and deep-frying

noodles, miso soup, sashimi

many rich spices