8 Nutrition and obesity

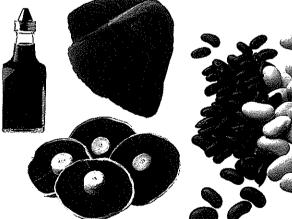
Scrub up

1 Work with a partner. How many of these foods can you



- 2 Look at the lists, and answer the questions.
 - Find two good sources of protein.
 - Find two good sources of carbohydrate.
 - Find two dairy products.
 - Find two pulses.
 - Find seven ways of cooking food.
 - Which foods on the list are high in fat?
 - Which foods contain high levels of vitamin C?
 - Which foods are low in vitamins?
 - Which items on the list are junk foods?
 - Which food do you think is highest in calories?
- 3 With your partner, use the lists to create
 - the most nutritious meal possible
 - the most unhealthy meal
 - a meal for an athlete
 - a meal for a diabetic
 - a meal for somebody who needs to lose weight.





Main course

A (choose one) two grilled burgers tuna fish pie a cheese pizza lentil soup egg noodles two slices of roast beef two fried eggs tofu curry a lamb kebab

+B (choose two)

fried rice boiled potatoes baked beans in tomato sauce salad tinned tomatoes stir-fried mushrooms fried onion rings steamed broccoli

Dessert

chocolate pudding a banana a doughnut yoghurt

Drink

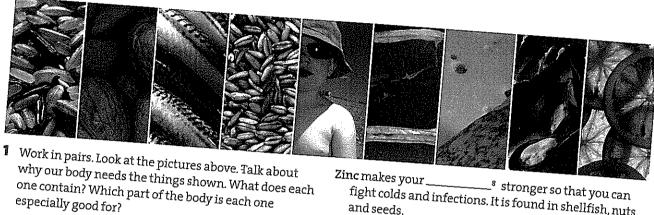
- a bottle of cola
- a glass of orange juice
- a glass of wine
- a glass of milk

In this unit

- nutritional value of different foods
- vitamins and minerals
- diabetes
- body measurements and bmi
- giving advice
- eating disorders

Body bits

Nutrition



	one co	ontain? Whi ially good fo	eds the thing ich part of th or?	gs shown. What does eac se body is each one
2	Comp	ete the doo	and the	ritamins, minerals, and ne words are used more
	teeth brain blood cells	eyes muscles	enzymes skin bones	immune system cardiovascular system
The	B-vitan	iit like oran iins keep th	ges and grap	1 repair itself ound in fruit, especially pefruit2 healthy and help oods like wholegrain
b Vita in	read and min A ke nportani	l cereals. Peps the	3 h	oods like wholegrain ealthy and is
Vitar	nin D is 1	leeded for 1		Rrintt'
be ma sur	cause it l ikes Vita ilight.	nelps the bo min D whe	dy absorb can n our	s and4 dcium. Our body 5 is exposed to
Calciu	m is nee	ded for ab:	т.	6 and teeth c, cheese, and

_______ carry oxygen. If you do not

get enough iron, you will be pale and tired and you

may get anaemia. Iron is found in red meats, especially

Iron helps your ___

liver.

Or	nega-3 is an essential fatty acid which helps your ————— ⁹ function well. It is found in oily fish like mackerel, sardines, salmon, and tuna.
T)	salmon, and tuna.

Tn .	
Protein build	Sim maintain
Vour hody	s up, maintains, and replaces the tissues in
y ar body.	rour 10 rour
your immi	Your 10 , your 11 , and in system are made up mostly as a first substitution of the system are made up most substitution of the system are made up mostly as a first substitution of the system are made up mostly as a first substitution of the system are most substitution of the system are mostly as a first substitution of the system are most substitution of the system are most substitution of the system are mostly as a first substitution
<i>a</i>	ine system are made up mostly of protein

Carbohal	ap mostly of prote
Carbonydrates are sugars wh	ich ?
Carbohydrates are sugars wh	are proken down by
course c	in the ¹³ as a
and pasta are source.	ducts such as rice, bread
and pasta are sources of car	rbohydrate

Fats fuel the body and he	dn oh a - 3
are also the building k	lp absorb some vitamins. They
insulate nervous suct	in the strong and they
Unsaturated fats four	d in the body.
are believed to protect	em tissue in the body. d in oils and nuts, for example, the
a o protect	LITE14

Project

Research two of the following substances, and write about why our body needs them, and what they are found in. Try to use some of the language in Body bits. Vitamin E

- Vitamin K
- Potassium
- Selenium
- Folic acid

194 million people worldwide suffer from diabetes. In the USA, it is the sixth most common cause of death.

Vocabulary

Diabetes



- Discuss with a partner what you know about diabetes.
- 2 Match these words with their definitions.
 - 1 balance a taking regular exercise childhood b small amounts of food that you eat between meals 3 diet c sugar that the body uses for 4 glucose d the time of your life when you are a child 5 active the correct amount of different things
 - the type of foods that you usually 6 obesity 7 overweight g the condition of being very fat, in

a way that is not healthy

- 8 snacks h too heavy and fat
- Put the words into the spaces in this text about diabetes.

Diabetes occurs when your body does not produce
enough insulin, a hormone that controls the level of
It is very common for very3 people to get diabetes, so the illness is linked to4.
For this reason, it is important to get the rights between food and exercise. It is
important to be6, and to eat a healthy7, containing plenty of fruit and
vegetables. Nutritionists say are better than big meals.

Listening 1

A diabetic patient

- 1 🞧 Listen to a student nurse discussing a patient with a hospital nutritionist, and answer the questions.
 - 1 How long has the patient had diabetes?
 - Which type of diabetes does the patient have?
 - Is the patient obese?
 - 4 What does the patient's 'special machine' do?
 - Can the patient eat sugar?
 - 6 Why should the patient not have big meals?
 - 7 What is hypoglycaemia?

ta	check.
1	Does he i himself with insulin?
2	He's o a special diet, is he?
3	Type one diabetes is not lto obesity.
4	This patient has a special machine to chlevels of glucose
5	He needs to c the calories in his meals

6 ... he should h_____snacks, not big meals ...

2 🕡 Try to complete the missing verbs. Then listen again

Reading

- 1 Do you like fast food? How often do you eat it? Do you think it is addictive?
- 2 Read the article and decide if these sentences are true (T) or false (F).
 - 1 The two girls in the article said fast food is 'nutritious and good for you'.
 - 2 Fast food changed Morgan Spurlock psychologically.
 - The film proved that fast food is good for you.
 - 4 Morgan Spurlock was overweight when he started filming.
 - 5 Morgan Spurlock became a fast food addict.
 - 6 Morgan Spurlock died from liver failure.

BMI (n) BMI means **Body Mass Index**. It is used to assess whether a person's weight is healthy or not. To calculate a patient's BMI you use the formula:

weight in kilograms height in metres²

- BMI of 18.5 to 24.9 is the right weight
- \odot BMI of below 18.5 is underweight
- BMI of 25 to 29.9 is overweight
- BMI of over 30 is obese

Eat yourself to

- 3 Discuss these questions with a partner or in a group.
 - Is obesity a choice or an illness?
 - Do you think fast foods should be limited like cigarettes (for example health warnings, high price, special places for eating, etc.)?
 - Should overweight people pay more for health care, plane tickets, etc.?

In 2003, American film maker Morgan Spurlock made a film about the effects of eating only hamburgers, pizzas, and fries for a month. The idea came to him when two overweight American girls took legal action against a famous fast-food company. The girls accused the company of making them fat. The company said that it was not the food that made them fat, but eating too much. The company also said their food was 'nutritious and good for you'.

The girls' legal action failed, but Morgan Spurlock decided to test what the company said about their food. For a month he ate only fast food, three times a day, and took the daily exercise of an average American. He filmed himself during this month and the film he made records the changes that happened to him.

When Spurlock started making the film, he was healthy and slim. On the second day, he had his first 'fast-food stomach ache', and vomited. Over the following thirty days, he gained 24.5 lb (11.1 kg). He also had other problems – depression, headaches, and lethargy. He had cravings for a fast-food meal – only this would relieve the symptoms. A doctor told Spurlock he was addicted. Towards the end of the month, doctors warned him that the food was causing life-threatening liver damage, and said he should stop. It took five months on a vegetarian diet to get back to a normal weight.

The film he made is called *Super size me*. It was nominated for an Academy Award for best documentary in 2005. The film's message was that the fast-food industry was probably as bad as the tobacco industry – it made a lot of money by encouraging illness.

Speaking

- Work in pairs. Which person on the right do you think these statistics refer to?
 - 1 1.80 m
 - 2 95.7 kg
 - 3 5'11"
 - 4 211 lbs
 - 5 $1.8 \times 1.8 = 3.24$
 - 6 $95.7 \div 3.24 = 29.54$
- 2 P How do you say them? Listen and check.
- Work in pairs. You are going to exchange information about the other three pictured people. Student A go to p.110. Student B go to p.113.
- 4 Calculate the BMI of the three people.

