BIG ENGLISH



5

2ND EDITION

BIG TV WORKBOOK

Contents

Unit	Vocabulary	Structures	CLIL: Content and Culture	Videos
1 **Sports for All** pp. 4–7	**Paralympic sports:** blades, canoeing, gold medal, Paralympics, skiing, swimming, technology, wheelchairs	How about joining the football team? Ok. I love playing football. I'm not good at playing basketball. I'm not really interested in canoeing. I like dancing a lot!	**Social Science:** sports and disabilities **Sports and technology:** different ways to use technology in sport	Sports for All video **Before You Watch:** carbon fiber, fearless, partially blind **Watch:** achievement, determination, exceedingly well, international competition, operation, physical and mental benefits, sporting hero, take part, visually impaired, weightlifting
2 **Family Milestones** pp. 8–11	**Life milestones:** buy a new house, celebrate a wedding anniversary, get a driver's license, get a job, get married, graduate, have a first birthday	When did Maria retire? Maria retired when she was 60. When I was 21, I graduated. That was 30 years ago!	**Social Science:** family celebrations **Celebrating milestones across the world:** different ways of celebrating important life events	Family Milestones video **Before You Watch:** contentment, memories, success **Watch:** arguments, birthday card, carpenter, diamond anniversary, family traditions, foretell, fortune telling, judge, prosperity, ritual, significant, splash out, symbolize, take the shine out of, throne
3 **Charity Fundraising** pp. 12–15	**Raising money for charity:** collect money, do a sponsored swim, get people to sponsor you, have a dress-up day, have a used book sale, host a talent show, organize a red nose day, run a marathon, sell homemade goods	How could we raise money for our club? We could run a marathon. How are we going to tell people about the sale? You're going to make posters!	**Social Science:** fundraising **Fundraising around the world:** different ways to raise money for charity	Charity Fundraising video **Before You Watch:** hold an eating competition, make a lemonade stand, run in slow motion **Watch:** developing countries, donate, fundraising, grand, gain attention, get involved, get sponsored by, illness, passers-by
4 **Let's Go Shopping** pp. 16–19	**Places to shop (nouns):** auction, convenience store, department store, farmers' market, flea market, mall, street food stall, supermarket **Places to shop (adjectives):** indoors, online, outdoors	A supermarket is more/less expensive than a convenience store. A flea market is the most/least expensive! Are the candies nice enough? The candies in the convenience store are too expensive.	**Social Science:** shopping and food **Shopping around the world:** different and unusual ways to shop	Let's Go Shopping video **Before You Watch:** bargain, produce, profit, vintage **Watch:** aisles, antiques, bad mood, deals, draw near, dreary, full of cheer, global warming, haggle down prices, hang out, light up, packaged food, raise eyebrows, records, snoring, thrilling, vendors, vintage gear
5 **Vacation Adventures** pp. 20–23	**Travel and adventure:** the Arctic, exotic country, icebreaker, medical research, Mount Everest, sightseeing, silver mine, snorkeling	When Susie was snorkeling, she saw a whale. What was Susie doing when she saw a whale? She was snorkeling when she saw a whale.	**Geography:** vacation destinations **Vacations around the world:** different and unusual vacations around the world	Vacation Adventures video **Before You Watch:** ancient monument, dynamite, tourist **Watch:** claustrophobic, deck chair, explosive, intensive care units, levels of oxygen, Bolivia, Dubai, Finland, the Maldives, Norwegian, Qatar, Rome
6 **Robot World** pp. 24–27	**Technology and devices:** avatar, computer, digital camera, microphone, robot, speaker, tablet, touchscreen	Do you think we'll have stores 100 years from now? No, we won't. We'll buy everything online.	**Science and technology:** robotics **Using robots across the world:** different ways that robot technology can make life easier	Robot World video **Before You Watch:** crew, receptionist, social contact **Watch:** cheer up, electronic devices, extension, isolated, prevent, robotics, substitute, traffic jams, Belgium, Chinese, Japan, Kinshasa (Congo), Norway
7 **Great Invention** pp. 28–31	**Inventions:** 3D printer, cells, headset, heart, ingredients, plastic, robotic arm, UV light	What is a robotic arm used for? It's used for making cars.	**Science and technology:** new inventions and technology **New inventions:** new and different ways of using 3D printers	Great Invention video **Before You Watch:** invention, patterns, shapes **Watch:** artificial skin, assemble, constant evolution, customize, essential, harvest, increasingly, ink cartridge, kidneys, liquid resin, manufacturing process, minerals, Omegas, pioneer, proteins, reprogram, sophisticated, transform, vitamins
8 **Food Miles** pp. 32–35	**Food farming:** agriculture, climate change, community farm, food miles, nutrients, organic food, urban farm, warehouse	What is sold in the Netherlands? The most colorful flowers are sold in the Netherlands.	**Life Science:** food and the environment **Growing food across the world:** new and unusual ways to grow and transport food	Food Miles video **Before You Watch:** continent, cocoa beans, coffee beans, exporting **Watch:** basement, contribute, fuel, ideal conditions, next-door, pesticides, process, reusable, scientific approach, trailer, vertical, Ivory Coast, New Jersey
9 **Extreme Sports** pp. 36–39	**Extreme sports:** mountain biking, mountain climbing, pole climbing, sandboarding, skydiving, surfing, white water rafting, zorbing	Would you rather go surfing or play football? I'd rather play football. What about you? Have you ever been sandboarding? No, I haven't. Have you?	**Social Science:** sports **Extreme sports across the world:** different and unusual ways to get an adrenaline rush	Extreme Sports video **Before You Watch:** adrenaline rush, avalanche, volcano **Watch:** above sea level, accustomed to, avoid, charge up, exhilarating, inducing, muscles, peak, push boundaries, push to the limit, sensible decisions, weird and wacky

Word List p. 40

1 Sports for All

Before You Watch

I will learn about opportunities for everyone to do sport.

1 Read, listen, and write. Listen again and check.

canoeing wheelchairs skiing gold medal Paralympics blades swimming technology



Have you heard of the _____? These are Olympic Games for people with special needs or problems. There are a lot of different games in this big event, such as _____ in the Olympic pool, basketball, other water sports like _____, and even _____ in winter.



Athletes taking part in these games usually need help from _____. For example, athletes who play basketball or tennis sit in special _____ to move on the court. For running, athletes use special legs called running _____. These help them run really fast.

This sporting event is very important for the athletes. Winning a _____ in the Paralympics can give people a new interest in life.

2 Choose a word or phrase from 1. Write.

a In this sport you travel quickly down a river. _____
b Athletes who have lost a leg can use these to run a race. _____
c This is the first prize in a sports competition. _____
d You do this sport in winter. _____
e This is a competition for athletes with physical problems. _____
f People who can't walk can use this to move. _____
g You get into the water to do this sport. _____
h This uses computers and modern equipment to help athletes. _____

3 Listen, look, and say.



fearless



carbon fiber



partially blind

4 Match.

1	carbon fiber	a	never afraid
2	fearless	b	not able to see well
3	partially blind	c	a material used to make blades

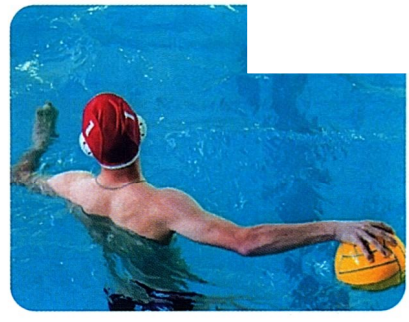
5 Which sports do you know? Discuss and complete.



ball sports



mountain sports



water sports

_____ _____ _____

_____ _____ _____

_____ _____ _____

_____ _____ _____

_____ _____ _____

6 Which Paralympic sports have you seen? What did you think about them? Tell a partner.

7 V1 Watch. Check (✓) what you hear or see.

running blades ☐ wheelchair tennis ☐ canoeing ☐

skiing ☐ basketball ☐

8 V1 Watch again. Complete the table.

Name	Sports	Other information
Rio	_____	His _____ blades help him run really fast.
Andy	_____	He has won a _____ _____ in the Paralympics.
Rob	_____	He says "I am _____."
Charlotte	_____	She helps her friend who is partially _____ .

9 Read and complete. Then listen and check.

kilometers radios wheelchairs how direction instructions

These are sit skis made for racers who need _____. The ski technology allows winter Paralympians to race at speeds up to 112 _____ an hour.

So _____ do you ski if you are partially blind? This visually-impaired woman uses her friend Charlotte as a guide. Charlotte gives her _____ so that she skis in the right _____ and at the right speed. They communicate using _____.

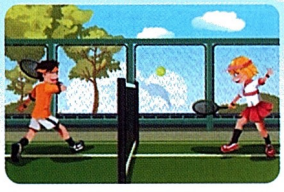


10 What would you like to try? Draw lines. Ask and answer with a partner.

I love | I'm good at | I don't like | I'm not good at

I'm interested in | I'm not interested in

مرجع زبان ایرانیان






How about joining the football team?

OK. I love playing football.



11 5 Complete the conversation. Then listen and check.

playing | interested | great | about | thanks | doing | dancing | joining | How

Phil: How _____ trying out for the basketball team?

Clara: I don't think so. I'm not good at _____ basketball.

Phil: _____ about joining the canoeing team?

Clara: No, _____. I'm not really _____ in canoeing.

Phil: What do you like _____?

Clara: I enjoy singing. And I like _____ a lot!

Phil: How about _____ the drama club?

Clara: The drama club? Yes! Sounds _____!



THINK BIG

Which sports have you tried?
Which sports would you like to try?

2 Family Milestones

Before You Watch

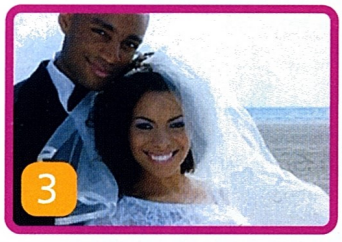
I will learn about important events in our lives.

6

1 **Read, listen, and find the photo for each sentence. Write the number.**



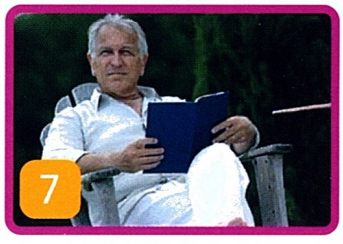














a It's wonderful to <u>retire</u> after thirty years of hard work!
b When women <u>get married</u> they often wear a white dress.
c When you <u>get a driver's license</u>, you can buy a car.
d I'm just starting university. I'll <u>graduate</u> after three years.
e My little cousin was born a year ago. She's <u>having her first birthday</u> today.
f I <u>got a new job</u>! I start work in a new office tomorrow.
g Our apartment is too small, so we're going to <u>buy a new house</u>.
h My grandparents are <u>celebrating their sixtieth wedding anniversary</u> next week.

2 **Look at the underlined events in 1. In which order do they usually happen? Write, then discuss with a partner.**

1 _____ 5 _____
2 _____ 6 _____
3 _____ 7 _____
4 _____ 8 _____

7

3 Listen, look, and say.



contentment



success



memories

4 Complete the definitions with words from 3.

a _____ is when you do something that you wanted to do and worked hard to achieve.

b _____ are the things you remember from the past about a person, place, or experience.

c _____ is a feeling of happiness and being satisfied with what you have.

5 Think about a recent family celebration. Complete and discuss.



A family celebration

What was the celebration?

_____

Who was there?

_____

What did you do?

_____

What did you eat?

_____

6 What milestones does your family celebrate? Tell a partner.

7 V2 Watch. Check (✓) what you hear or see.

get a driver's license ☐ celebrate a wedding anniversary ☐
have a first birthday ☐ retire ☐



8 V2 Watch again. Complete the table.

Name	Celebrating	How they are celebrating
Ollie	_____	with lots of _____
Luke	learning to _____	being happy with his _____
babies in Korea	_____ birthday	a big _____
Patricia and William	60th wedding _____	a small _____
the Queen	_____ years as queen	with _____ of people

8 9 Read and complete. Then listen and check.

have wedding important traditions memories grow up

As we grow older, family _____ and celebrations are just as _____.
John and Ann are celebrating their 81st _____ anniversary. They have a lifetime of shared _____. They watched their children _____ and get married themselves.



After 81 years, John and Ann are still happily married. What's their secret? Contentment and being happy with what they have.

After You Watch

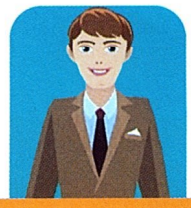
10 Read. Ask and answer with a partner.



Maria / 60 / retire



Ben / 18 / get a driver's license



Manny / 22 / graduate



Jeannie / 5 / start school



Grant / 28 / buy a house



Erica / 31 / get married



When did Maria retire?

Maria retired when she was 60.



9 11 Read and complete. Then listen and check.

I went to university when I _____ 18. I studied hard. _____ I was 21, I graduated. I got my pilot's license and started my first _____ as a pilot when I was 23. A few years _____, I bought a big house near the sea. When I _____ married, I went to live in London with Grandpa. We lived there _____ five years. Your mom had her first birthday there! Then we moved back to the US _____ your mom was two. That was 30 years _____!



THINK BIG What did you do when you were younger? What are the milestones in your life?

3 Charity Fundraising

Before You Watch

I will learn about raising money to help charities.

1 10 Listen, choose, and write. Listen again and check.

collect host do organize sell run have get

Barnham School is raising money for charity.
These are our ideas!

a The sports coach wants to _____ a marathon.
b The boys in sixth grade want to _____ a red nose day.
c The math teacher wants to _____ a used book sale.
d The principal wants to _____ a sponsored swim.
e The girls in fifth grade want to have a dress-up day to _____ money.
f The music teacher wants to _____ a talent show for singers.
g The football team wants to _____ people to sponsor them to play.
h The students in seventh grade want to _____ homemade goods.





2 Read and complete with phrases from 1.

a If you're good at water sports, you can _____.
b If you like baking cakes, you can _____.
c If you like old books, you can _____.
d If you want to make people laugh, you can _____.
e If you want everyone to wear special clothes, you can _____.
f If you can run a very long way, you can _____.
g If students in your class love basketball, you can _____.
h If your friends like singing and dancing, you can _____.

11

3 Listen, look, and say.



run in slow motion



make a lemonade stand



hold an eating competition

4 Which of the ideas for raising money in Activity 3 are they talking about?



Anyone can do this – you just have to feel really hungry!

_____



You don't go fast, but you have to be fit.

_____



Choose a hot day. Everyone will be thirsty and you'll raise lots of money!

_____

5 What would you do to raise money for charity? Discuss and complete.

A Charity Fundraiser

Name of event: _____

Where: _____

When: _____

Which charity: _____

What would people have to do: _____

6 Have you ever raised money for charity? What did you do? Who did you raise money for? Tell a partner.

7 V3 Watch. Check (✓) what you hear or see.



organize a red nose day ☐



host a talent show ☐



do a sponsored swim ☐



sell homemade goods ☐



run a marathon ☐



hold an eating competition ☐

8 V3 Watch again. Complete the table.

Fundraiser	What do people do?	What do they raise money for?
_____ Nose Day	wear a funny nose	to help people in poor _____
Marathon run in _____	_____ very slowly	to find ways to make _____ people better
Eating _____	eat lots of meatballs	to help people hurt in an earthquake in _____

12 9 Read and complete. Then listen and check.

raise posters event homemade lemonade charity

Not every _____ needs to be so grand to help charity. Selling _____ goods is an enjoyable and creative way to _____ money for charity. Delicious _____, made by some schoolgirls, is selling well to passers-by. The girls give all the money they make to _____. They have even made _____ to advertise their stall.



After You Watch

10 **How could you raise money? Draw lines. Ask and answer with a partner.**



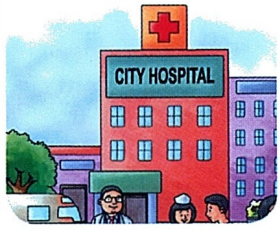
for our club



for our class trip



for our team

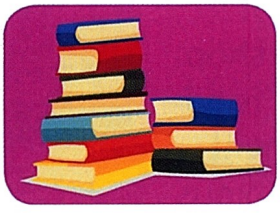


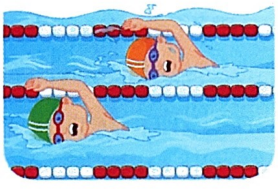
for the hospital



for our school













How could we raise money for our club?

We could run a marathon.



11 13 **Complete the conversation. Then listen and check.**



Jaime: _____ could we raise money for the soccer club?
Sophie: We could do a _____ swim.
Jaime: I'm not into swimming. What else could we _____?
Sophie: Ummm ... We _____ have a cake sale.
Jaime: That's a great idea! I love baking. How _____ could we sell the cakes for?
Sophie: One dollar each.
Jaime: OK. I _____ going to make lots of cakes. We're _____ to raise lots of money!
Sophie: How _____ we going to tell people about the sale?
Jaime: You're going _____ make posters!

THINK BIG **What charity would you like to raise money for? What could you do?**

4 Let's Go Shopping

Before You Watch

I will learn about shopping in different places.

1 Read and listen. Where would you buy old things?





In the past, people bought the things they needed at small shops near their house. You got bread in one shop and fruit in another. Now, people buy most of their food in a supermarket and their clothes in a big department store. But a small convenience store still sells basic things like milk and newspapers.

You can shop outdoors too. The fruit and vegetables at a farmers' market are very fresh! Eating outside at a street food stall is cheaper than going to a restaurant.

If you want to buy old things cheaply, you can go to a flea market. An auction is more expensive. At an auction, everyone says what they want to pay for an item and the person who offers the most money gets it!

At home, we can use our computers to shop online. But a shopping mall is a great place to meet your friends – there are lots of shops and cafés there!

2 Read and write the correct store from 1.

a Somewhere you can buy things using a computer or tablet. _____
b A large store with different areas. _____
c A small store that is open until late at night. _____
d A large building with many stores inside. _____
e Somewhere you buy things by offering more money than other people. _____
f A large store that sells food and things for the house. _____
g Stalls which sell food ready to eat. _____
h A place selling food produced on a farm. _____
i A place selling used goods. _____

15

3 Listen, look, and say.



bargain



produce



vintage



profit

4 Complete the sentences with words from 3.

a I don't have much money so I like to look for a _____.

b If you want something old and unusual, go to the flea market. You'll find many _____ treasures there!

c If you buy something for $10 and sell it for $20, you have made a _____.

d I like farmers' markets because they sell local _____, like fruit and vegetables.

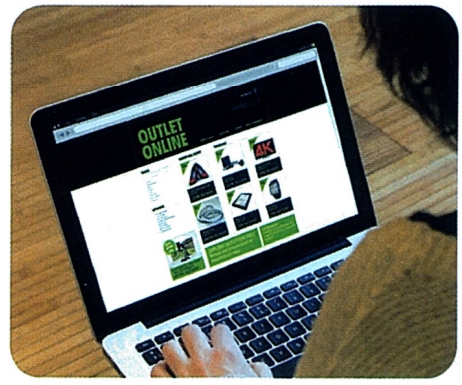
5 Where do you like to go shopping? Complete and discuss.



indoors



outdoors



online

_____ _____ _____ _____

_____ _____ _____

6 What different shopping places have you been to? What did you buy? Tell a partner.

7 V4 Watch. Number the words and phrases in the order you hear or see them.



mall	☐	street food market	☐
department store	☐	supermarket	☐
auction	☐	farmers' market	☐

8 V4 Watch again. Circle to complete the sentences.

a The street food in Lebanon is **awful / delicious**.
b People make the street food **in a big store / on the street**.
c Local people **eat / don't eat** street food.
d Shopping at a supermarket is **too boring / interesting**.
e The produce in vegetable stalls **is locally grown / comes from far away**.
f At a flea market you can try to get a bargain by offering **more / less** money.
g A flea market sells clothes you **can / can't** find in a mall.
h Dealers buy things at auctions, then sell them for **more / less** money to make a profit.

9 16 Read and complete the poem. Then listen and check.

markets | phone | prices | store | fun | buy

Stay out of the mall if you want
some good _____.
Weekend _____ offer
excitement for everyone.
A great place to hang out
And _____ stuff with friends.
Haggle down _____
until the day ends.
Browse T-shirts and gadgets,
_____ cases galore,
And clothes that aren't copied in a
shopping mall _____.



10 Compare the different places to shop with a partner.

exciting
easy
difficult
busy
cheap
expen·ive
quiet
interesting
boring

supermarket
convenience store
flea market
street food market
auction

mall
online shopping
farmers' market
department store



A supermarket is less expensive than a convenience store.

A flea market is the least expensive!



11 Read, choose, and complete.

~~cold~~ boring expensive young

a It's 10 degrees outside. It's not hot enough to go swimming. It's **too cold**.
b That dress costs $500. It's not cheap enough. It's _____.
c I can't read that book. It's not interesting enough. It's _____.
d John can't travel by himself. He's not old enough. He's _____.

12 Read, listen, and complete the conversation.

Finn: I want _____ buy some candies for my friend.
Stella: Where are you _____ to buy them?
Finn: I don't know. The candies in the convenience store are _____ expensive.
Stella: How _____ the farmers' market? Can you buy candies there?
Finn: Yes, you can. But it's _____ expensive than the convenience store!
Stella: The supermarket is _____ cheapest.
Finn: I know – but are the candies there nice _____?
Stella: The candies at the farmers' market are homemade – and they're delicious.
Finn: You're right! I'm going _____ buy those.

THINK BIG

Why are there different places to shop?
Why do people prefer different places?

5 Vacation Adventures

Before You Watch

I will learn about unusual vacation places.

1 18 Read and listen. Who wants to go to Chile?





a **Lily:** We're going to Paris this year. Isn't that great? We'll see lots of interesting places.
Tom: Oh, no! Not more sightseeing! I really want to go to the beach and learn snorkeling. Think of seeing all those fish!
Lily: Ah – sightseeing underwater!

b **Ben:** Did you see that TV program about medical research, Ana?
Ana: You mean the one where they climbed Mount Everest? Yes, I did. Imagine climbing a mountain to do research!

c **Julie:** My brother's going to the Arctic. He's going to visit the North Pole!
Phil: Is he traveling on an icebreaker? A big ship like that is the safest way to travel through icy waters.

d **Dad:** Let's go to an exotic country this year!
Mom: Yes – somewhere really different would be great. What about Chile? We could go to the Atacama Desert – and you can go down a silver mine and find out how they get the metal out of the earth.

2 Choose a word or phrase from 1. Write.

a A large boat you need in very icy water. _____
b A place underground where you can dig for metal. _____
c A very snowy place – the North Pole is there. _____
d When you look at interesting buildings and places on vacation. _____
e An interesting and unusual place. _____
f The highest mountain in the world. _____
g When you collect and study information to make sick people better. _____
h An activity where you swim with your face underwater. _____

19

3 Listen, look, and say.



tourist



ancient monument



dynamite

4 Read the definitions and write the words from 3.

a This is used to cause an explosion. The explosion gets metal out of the ground.

_____

b This is someone who visits a place on vacation.

_____

c This is a building or other special feature of a place that people like to visit. It's very old.

_____

5 Write all the things you like to do on vacation. Then discuss with your partner.

Things to do on vacation

_____

_____

_____

_____

_____

_____

_____



6 What is the most exciting vacation you have been on? Tell a partner.

7 V5 Watch. Number in the order you hear or see them.

sightseeing ☐
dynamite ☐
the Arctic ☐
tourists ☐
medical research ☐
snorkeling ☐
an icebreaker ☐



8 V5 Watch again. Complete the table.

Place	Vacation activity
Qatar	relaxing in a _____
the Maldives	_____
Rome	_____
the Arctic	taking _____ of polar bears
Bolivia	exploring the silver _____
Nepal	doing medical _____

20 9 Read and complete. Then listen and check.

very boat Finland swimming vacation

A few hundred miles away, in _____, these tourists are on a special _____ built for _____ cold waters: an icebreaker. A surprising number of people choose to go on this freezing _____.

The captain says, "We have approximately ten thousand tourists per year."

The visitors are now ready to go _____ in the icy waters.



After You Watch

10 Read and write. Then ask and answer with a partner.

a 

Susie – snorkel – she – see a whale

When Susie was snorkeling, she saw a whale.

b 

Ryan – visit an exotic country – he – meet a tiger

_____

c 

Zander – visit ancient monuments in Rome – he – get lost

_____

d 

Zoe – travel on an icebreaker – she – take this photo

_____

e 

Katie – climb Mount Everest – she – hurt her leg

_____



What was Susie doing when she saw a whale?

She was snorkeling when she saw a whale.



21 11 Complete the conversation. Then listen and check.

Manu: Have you heard? Anna is in the hospital! She hurt her arm.
Aisha: Oh, no! _____ was she doing when she got hurt?
Manu: She _____ biking with her family yesterday _____ it started to rain.
Aisha: What happened?
Manu: She fell off _____ she was going down a hill.
Aisha: _____ she going too fast when she fell off?
Manu: Yes, she _____.

THINK BIG

Imagine the most exciting vacation you can. What happened?

6 Robot World

Before You Watch

I will learn about robots and what they can do.

1 **Match the underlined words to the photos. Write the number.**





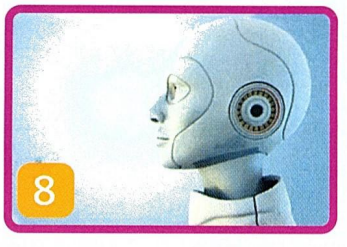












a With a digital camera, photographers can _____ thousands of photos and erase the ones they don't like. ☐

b A tablet is much lighter than a laptop so it's easier to _____. ☐

c I'd love to have a robot in the house to _____ all the housework! ☐

d People create avatars when they _____ interactive video games. ☐

e I've got a new computer to _____ my work quicker and easier. ☐

f I'll have to get a new speaker for my CD player because I can't _____ the music. ☐

g Some people _____ a mouse with their screen, but others prefer a touchscreen. ☐

h You can hear me through the headphones and _____ to me using the microphone. ☐

22

2 **Read and complete the sentences in 1. Then listen and check.**

play use carry hear make take do speak

3 Read and write the correct technology word from 1.

a I think this _____ is broken. When I tap it like this, nothing happens.
b The best way to take photos is with a _____.
c If you want to make a recording, speak into the _____.
d The music is really loud! These are great _____.
e Scientists often use _____ to do work that is too dangerous for people.
f My uncle doesn't like _____. He prefers to write everything by hand.
g Have you chosen your _____ for the game?
h My mom's laptop was too heavy to carry around, so she bought a _____.

4 Listen, look, and say. 23



crew



receptionist



social contact

5 Complete the sentences with words from 4.

a When you are ill and in bed, you miss the _____ with your friends.
b All the members of the _____ had different jobs to do.
c When we arrived at the hospital, the _____ told us where to wait.

6 What would you like a robot to do for you? Why? Complete and discuss.



What kind of robot? _____

Task: _____

Reason: _____

7 What electronic devices do you use? What do you use them for? Tell a partner.

8 V6 Watch. Number the items in the order you hear or see them.

 speakers ☐

 touchscreen ☐

 tablet ☐

 microphone ☐

 camera ☐

 avatar ☐

9 V6 Watch again. Check (✓) the sentences which are correct.

a The little robots are part of an airplane crew. ☐
b A robot in the USA teaches children at school. ☐
c Robots can help sick children have less social contact. ☐
d The avatar does the student's homework. ☐
e Students can use their phones to control what the avatar does. ☐
f The avatar can take photos. ☐
g Pepper is a robot receptionist in Norway. ☐
h Pepper helps children at the hospital. ☐

24 10 Read and complete. Then listen and check.

desk	avatar	speaks	ears	tablet	microphones

In Norway, there is a robot that kids use in school. One woman describes the robot this way: "This is an _____, so an extension of yourself. So it sits at the child's _____ in the classroom and the child uses a _____ or a phone to start it, control its movements with touch, and talk through it. So it's their eyes and their _____ and their voice. So it has speakers and _____ and cameras, and when the child _____ at home or in the hospital to his iPad it just comes out through this one, so it's really a super, super fancy phone."

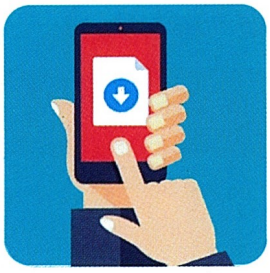


After You Watch

11 Think and choose. Ask and answer with a partner.



yes / no



yes / no



yes / no



yes / no



yes / no



Do you think we'll have stores 100 years from now?

No, we won't. We'll buy everything online.



25 12 Complete the conversation. Then listen and check.

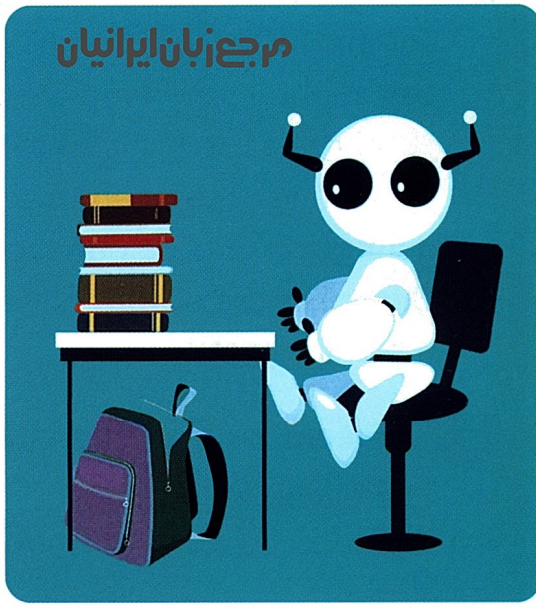
Paulo: Do you think _____ have tablets 100 years from now?

Jen: No, we _____.

Paulo: How _____ we send messages?

Jen: Everyone will have a smartwatch. They _____ use that to send messages. _____ you think we'll have schools 100 years from now?

Paulo: _____, we will. But no one will _____ to school. We'll all have avatars in a virtual classroom.



THINK BIG

What do you think will be different in the future? How?

7 Great Invention

Before You Watch

I will learn about a recent invention.

26

1 **Read and listen. Then match the underlined words to the photos.**





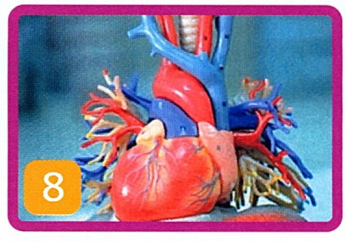












a Today we are going to learn about the tiny cells which make up our bodies. ☐
Tomorrow, we are going to study a very special organ: the human heart. ☐

b Last night, I saw a really informative TV program. It was about how some 3D printers use UV light to make interesting things. It was really good! ☐☐

c Do you want to listen to your music without anyone else hearing? Use a headset. Choose one made of plastic – it's light and it doesn't break. ☐☐

d Our cakes are always perfect. That's because we use robotic arms to mix the ingredients! ☐

2 **Read and write the correct word or phrase from 1.**

a The ocean is so full of _____ that fish are dying in many places.
b _____ are so small you need a microscope to see them.
c One use of _____ is to make things very clean.
d They use a _____ to make cars in this factory.
e Doctors say that too much salt is bad for your _____.
f I need to buy a _____ so that I can watch films when my brother is asleep.
g A _____ can make all kinds of objects.
h The ice-creams in that shop are delicious! They only use fresh _____.

27

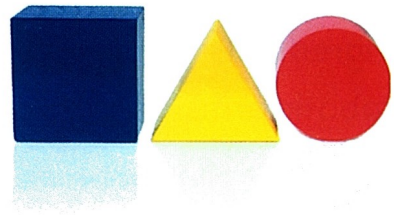
3 Listen, look, and say.



invention



patterns



shapes

4 Complete the sentences with words from 3.

a A square, a circle, and a rectangle are all types of _____.

b _____ are shapes, colors, or lines that repeat regularly.

c An _____ is a useful machine or tool that someone has thought of for the first time.



5 What recent inventions do you have at home? Where are they? Complete and discuss.

Invention	Use	Room
Internet TV	stream movies & TV	living room

6 What do you think has been the greatest invention? Why? Tell a partner.

7 V7 Watch. Number the items in the order you hear or see them.

ingredients	☐	3D printer	☐	plastic	☐
robotic arms	☐	UV light	☐	human cells	☐

8 V7 Watch again. Circle to complete the sentences.

a The 3D printers are used to make **food / books.**
b They can print **just one shape / lots of shapes.**
c The 3D printers can print objects using **wood / plastic.**
d **Ink / UV light** is used in the 3D printing process.
e Easton Lachappelle has made **robotic arms / human hair** using a 3D printer.
f His models are **cheap / expensive.**
g A headset is used to **design / move** the arm.
h In the future, we will use 3D printers to **travel to other planets / help sick people.**



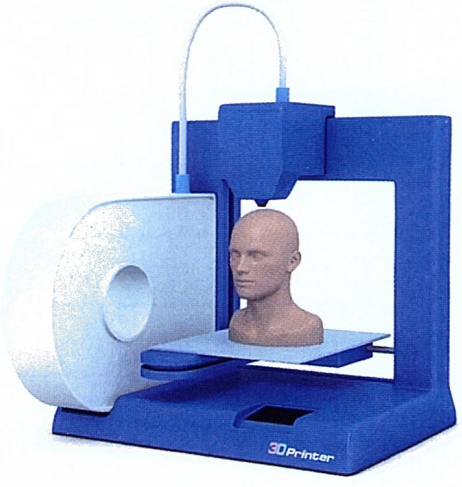
9 28 Read and complete. Then listen and check.

injured | body | 3D printers | human cells | technology

_____ are getting very sophisticated. They can even make artificial skin for people who have been _____.

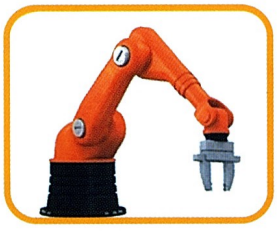
This machine is designed to use _____. It's not ready yet, but scientists are developing this printer to be able to create new _____ or kidneys.

A scientist says about 3D printing that "One of the future applications of this _____ is that you would be able to then harvest your own healthy cells from anywhere in your _____ and reprogram those to be the organ specifically that you want to create."



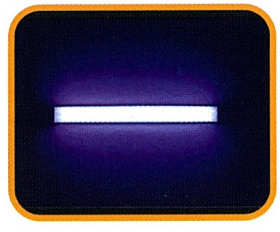
After You Watch

10 Match. Then ask and answer with a partner.


robotic arm


plastic


headset


UV light



3D printer


print toys


control electronic devices


make bags


clean water


make cars



What is a robotic arm used for?

It's used for making cars.



29

11 Complete the conversation. Then listen and check.

Harry: What's this used _____?

Nina: It's a 3D printer. It's used _____ create 3D objects.

Harry: Wow! _____ kind of things?

Nina: Fun things like musical instruments, cell phone cases, toys, cups, shoes … And really useful things _____ robotic arms.

Harry: What _____ robotic arms used for?

Nina: They're _____ for building things like cars and telescopes.

THINK BIG

Imagine you've got a 3D printer. What do you make with it? Why?

8 Food Miles

Before You Watch

I will learn about the distance food travels.



30

1 Read and listen. Why does Bill worry about bringing food from far away?

Interviewer: Today our guest speaker is Bill Jackson. Bill runs an urban farm – that's a farm in the middle of the city! It's a community farm, so everyone in his neighborhood works there. Bill, tell us why you decided to start the farm.

Bill: I've always been interested in agriculture. I like growing things. I also worry about using cars and planes to bring food from far away. It's bad for the environment and causes climate change.

Interviewer: So you decided to cut down on food miles by growing lots of fruit and vegetables here. Is that right?

Bill: Yes, that's the idea. We produce organic food because it's healthier than food grown using chemicals. Our fruit and vegetables are full of nutrients. We only keep them in our warehouse for a few days. Then we deliver them to people who live in the town. That way, they're fresh and healthy, and they don't travel far.

Interviewer: Thank you for talking to us today, Bill. Good luck with the farm!

2 Read and complete with the correct underlined word or phrase from 1.

a I live in the city, but I grow vegetables in my yard. I have my own _____!

b The company stores all their goods in a _____.

c He is studying _____ at university because he wants to be a farmer.

d This is very healthy food. It has lots of different _____.

e We use too much fuel. This causes _____ and other problems for the environment.

f Everyone around here wanted to grow fresh food. We started a _____.

g I love pineapples, but they come from very far away. That's a lot of _____!

h I buy _____ because it's healthier than food grown using chemicals.

31

3 Listen, look, and say.



continent



cocoa beans



coffee beans



exporting

4 Read the definitions and write the words from 3.

a Chocolate is made from these. _____

b A place like Europe, Africa, or Antarctica. _____

c This is the business of selling and sending goods to other countries.

_____

d A hot drink is made from these. It tastes slightly bitter.

_____

5 What did you eat yesterday? Where did it come from? Complete and discuss.



What was the food?	Was it fresh?	Where did it come from?
potato chips	No, in a packet.	USA

6 Which do you think is the most important? Read and number in order. Then discuss with a partner.

Food that is ...

☐ cheap ☐ delicious ☐ local ☐ healthy ☐ quick to prepare

7 V8 Watch. Number the items in the order you hear or see them.

climate change	☐	nutrients	☐	food miles	☐
warehouses	☐	agriculture	☐	community farm	☐

8 V8 Watch again. Check (✓) the sentences which are correct.

a Coffee is enjoyed in lots of different countries. ☐
b Bananas are grown locally in most countries. ☐
c If a plane brings food from far away, this uses a lot of fuel. ☐
d It is good for the planet if we burn lots of fuel. ☐
e Food miles tell us how far food travels before we eat it. ☐
f Food is fresher if it doesn't have to travel far. ☐
g Growing fresh organic fruit and vegetables is very easy. ☐
h Vertical agriculture uses a lot of water. ☐
i Mushrooms grow well in cold, dark, wet places. ☐

32 9 Read and complete. Then listen and check.

less	agriculture	near	made	grow	nutrients

In this New Jersey-based company, in the USA, they are taking a scientific approach and have developed a method for what they call "vertical _____". It allows them to _____ food indoors, making the most of the available space.

The food is grown on pieces of reusable cloth _____ out of recycled water bottles, and needs _____ water, fewer _____, and zero pesticides. The result is organic produce grown very _____ the people who will get to eat it.



After You Watch

10 Look and write. Then ask and answer with a partner.



a The most colorful flowers are sold in the Netherlands. (sell)



b Very tasty avocados _____. (grow)



c The most exciting phones _____. (design)



d The most delicious ice-cream _____. (produce)



e The softest cotton _____. (export by)



What is sold in the Netherlands?

The most colorful flowers are sold in the Netherlands.



33 11 Complete the conversation. Then listen and check.

Maria: Do you know where that banana was grown?
Jackie: Ummm ... no.
Maria: Bananas are _____ in countries very far away. They are packed carefully, then they _____ sent on planes all over the world. That banana has done a lot of food _____.
Jackie: Oh. Is that bad?
Maria: It uses a lot of fuel – and that makes _____ change worse.
Jackie: What should I do?
Maria: Buy food that _____ produced locally. Forget bananas! Try local organic apples. They're delicious!
Jackie: Where can I buy them?
Maria: They are _____ at the farmers' market.



What food do you eat that comes from far away? Where is it grown? How far does it travel?

9 Extreme Sports

Before You Watch

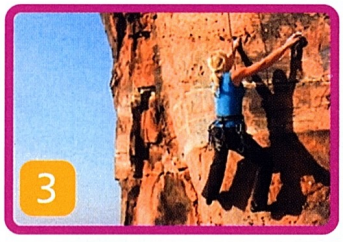
I will learn about dangerous and exciting sports.

34

1 Read and listen. Then match the underlined words to the photos.

















a If you are afraid of high places, don't go mountain climbing or skydiving. ☐ ☐

b For great surfing, you need big waves. Fast rivers are good for white water rafting. ☐

c When you go sandboarding, you travel fast downhill on a board. Zorbing is even more exciting – you go downhill inside a big ball! ☐

d You need a special type of bike to go mountain biking. ☐

e Pole climbing is popular. People compete to get to the top first. ☐

2 Read and write the correct extreme sport from 1.

a My brother loves _____ outside the city. He rides his bike every weekend.

b When I went _____, I felt frightened before I jumped out of the plane.

c Judy fell into the river when she went _____!

d This is a popular beach for _____ because the waves are so big.

e When we went _____ down the hill, I crashed and my board broke.

f A lot of people go _____ in the Himalayas.

g Our sports teacher organized a _____ competition. I got to the top last!

h When Jo went _____, the ball went very quickly down the hill.

35

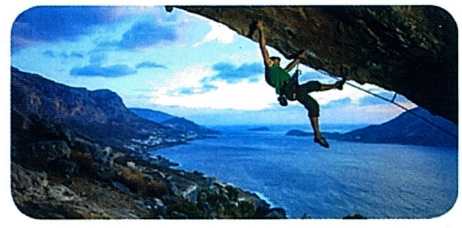
3 Listen, look, and say.



volcano



avalanche



adrenaline rush

4 Complete the sentences with words from 3.

a When you do extreme sports, you get a feeling of great excitement. This is called an _____.

b Mountain climbers have to be very careful not to get caught in an _____.

c When a _____ is active, it could erupt. Then it is a very dangerous place to be.

5 What extreme things would you like to try? Complete and discuss.

Extreme activities	Extreme food	Extreme theme park attractions
snowboarding	very hot chilies	rollercoaster

6 Which extreme sports do you find the most exciting? List them in order, from most exciting to most boring.

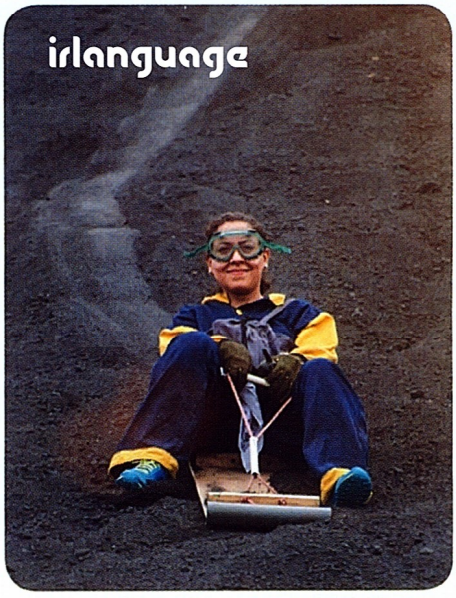
most exciting → most boring

7 VQ Watch. Number the extreme sports in the order you hear or see them. Which sports aren't mentioned?

pole climbing ☐ skydiving ☐ mountain climbing ☐
surfing ☐ sandboarding ☐

8 VQ Watch again. Circle to complete the sentences.

a The sand surfers go sandboarding **at the beach / on a volcano**.
b The sand surfers travel at up to **eighteen / eighty** kilometers an hour.
c You feel an adrenaline rush when you are **scared or excited / tired or bored**.
d Adrenaline **helps you breathe / gives you energy**.
e In an avalanche, the snow **melts / falls down the mountain**.
f Crossing the cracks in the ice is **dangerous / tiring**.
g The weather on the mountain is **good / bad**.
h It is important to **stop / keep going** if there is real danger.



36 Q Read and complete. Then listen and check.

extreme	good	enjoy	win	dangerous	energy

Many people like to push themselves to the limit, which is why _____ sports are so popular. It seems strange that people will choose to do things that look _____, but they do. So let's take a look at some extreme sports and try to find out why people _____ them.

One extreme sport is pole climbing. One man who does this sport says, "I love it. I just love the burst of _____ and the adrenaline that you get just from charging up the pole."

The adrenaline rush puts this racer's muscles into action and helps him _____ the race. The extra energy also makes him feel _____.

After You Watch

10 **Write five more sports for each category. Then choose, and ask and answer with a partner.**



Individual sports

surfing



Team sports

football



Would you rather go surfing or play football?

I'd rather play football. What about you?



37

11 **Complete the conversation. Then listen and check.**

Nadia: Have you _____ been sandboarding?

Rory: _____, I haven't. Have you?

Nadia: Yes, I _____. But it was too fast! I didn't really like it.

Rory: What kind of sports _____ you like?

Nadia: I love doing water sports. I _____ enjoy swimming.

Rory: _____ you rather try white water rafting or surfing?

Nadia: I'd _____ try surfing. It looks fun!

THINK BIG

Why do some people like to do dangerous sports? How do they choose which sport to do?

Word List

1 Sports for All

blades
canoeing
gold medal
Paralympics
skiing
swimming
technology
wheelchairs
carbon fiber
fearless
partially blind

2 Family Milestones

buy a new house
celebrate a wedding anniversary
get a driver's license
get a job
get married
graduate
have a first birthday
retire
contentment
memories
success

3 Charity Fundraising

collect money
do a sponsored swim
get people to sponsor you
have a dress-up day
have a used book sale
host a talent show
organize a red nose day
run a marathon
sell homemade goods
hold an eating competition
make a lemonade stand
run in slow motion

4 Let's Go Shopping

auction
convenience store
department store
farmers' market
flea market
mall
street food stall
supermarket
indoors
online
outdoors
bargain
produce
profit
vintage

5 Vacation Adventures

the Arctic
exotic country
icebreaker
medical research
Mount Everest
sightseeing
silver mine
snorkeling
ancient monument
dynamite
tourist

6 Robot World

avatar
computer
digital camera
microphone
robot
speaker
tablet
touchscreen
crew
receptionist
social contact

7 Great Invention

3D printer
cells
headset
heart
ingredients
plastic
robotic arm
UV light
invention
patterns
shapes

8 Food Miles

agriculture
climate change
community farm
food miles
nutrients
organic food
urban farm
warehouse
continent
cocoa beans
coffee beans
exporting

9 Extreme Sports

mountain biking
mountain climbing
pole climbing
sandboarding
skydiving
surfing
white water rafting
zorbing
adrenaline rush
avalanche
volcano



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