BIG ENGLISH



6

2ND EDITION

BIG TV WORKBOOK

Contents

Unit	Vocabulary	Structures	CLIL: Content and Culture	Videos
1 **Classroom Machines** pp. 4–7	**Classroom technology:** attend every class, develop a website, do research, learn how to use, lift the receiver, press the number	Has Cathy learned to use a computer yet? Yes, she has. She has already learned to use a computer. Have you done your assignment yet? No, I haven't. I haven't done it yet.	**Technology:** classroom technology **Technology around the world:** different technologies used for teaching	Classroom Machines video **Before You Watch:** e-learning website, group project, individual research, online information **Watch:** dig deeper, engaging activity, gadgets, learning session, specialized apps, tablets, technological support
2 **Saving the Environment** pp. 8–11	**Environmental issues:** air pollution, climate change, energy, environmental problem, garbage, ocean currents, ocean pollution	What can Mary do to help the planet? She can turn the lights off. What are current environmental problems? Climate change is a big environmental problem. What kinds of pollution are a problem? Air pollution is one problem. Ocean pollution is another problem. How can we clean the ocean? We can use currents.	**Life Science:** the environment **Environmental issues around the world:** different and unusual ways to save the environment	Saving the Environment video **Before You Watch:** cause, effect **Watch:** achievement, award, critical thinking, entrepreneur, leader
3 **The Wild** pp. 12–15	**Living in the wild:** build a shelter, climb a waterfall, face a challenge, live in the wild, spend the night, waste time	What will happen if John builds a shelter? If Johns builds a shelter, he'll stay dry over night.	**Life Science:** working as a team **Working together to survive:** people working together to live in the wild	The Wild video **Before You Watch:** cheat, encourage, make choices, work well together **Watch:** be happy with, cheat, feel good about, get a reward, get in trouble, lie
4 **Mars Travel** pp. 16–19	**Traveling to Mars:** colony, experiment, landscape, one-way ticket, oxygen, planet, satellite, simulator	What will Matt be doing ten years from now? He'll probably be living in a space colony.	**Science:** space travel **Colonizing a new planet:** people from across the world working together to colonize Mars	Mars Travel video **Before You Watch:** liquid water, organisms, survival **Watch:** 3D printers, applications, atmosphere, cope, curiosity, fake, isolation, red planet, settle
5 **Up in the Air** pp. 20–23	**Traveling by air:** airplane, airship, contraption, flying car, helicopter, hot-air balloon, prototype, superhero	If Mabel could travel by any vehicle, what would she choose? If she could travel by any vehicle, she'd travel by hot-air balloon.	**Science:** air travel **Air travel around the world:** different ways of flying	Up in the Air video **Before You Watch:** crash (v), motorized, take off, transport (v) **Watch:** able to disappear, advances of technology, participants, read people's minds, run at lightning speed, special abilities
6 **Time for STEM** pp. 24–27	**School subjects:** engineering, geography, geology, history, math, science, technology	Is Joseph taking more subjects than Anna? No, he isn't. He's taking fewer subjects than Anna.	**Life science:** gender equality **Studying science across the world:** girls and women studying science	Time for STEM video **Before You Watch:** career, gender pay gap, special effort **Watch:** across the globe, curriculum, express yourself, in high demand, increase your chance, practical experiments, pursue a career
7 **Mystery: Crop Circles** pp. 28–31	**Mysteries:** aliens, crop circle, geometrical pattern, man-made, paranoia, radiation, UFO, weather patterns	Stonehenge is in England, isn't it? Yes, it is. You haven't seen an alien, have you? No, I haven't!	**Science:** scientific mysteries **Mysteries around the world:** Mysterious events in different parts of the world	Mystery: Crop Circles video **Before You Watch:** geochemist, mathematician, psychologist **Watch:** complex circles, draw conclusions, fascinated, mysterious origins, mystical powers, paranormal activity, proof, through the ages, working against the clock
8 **Moving Landmarks** pp. 32–35	**Famous landmarks:** Big Ben, Eiffel Tower, Great Wall of China, Leaning Tower of Pisa, London Bridge, Statue of Liberty, Tower Bridge	What do you know about Big Ben? The tower of Big Ben was renamed the Elizabeth Tower in 2012.	**Geography and history:** the history of famous landmarks **Famous landmarks around the world:** moving landmarks from one country to another	Moving Landmarks video **Before You Watch:** original, replica, structure **Watch:** come to mind, impressive, life-size, permanent, visible structure, was rebuilt, was constructed, were designed
9 **Amazing Gaming** pp. 36–39	**Gaming:** arcade, characters, convention, devices, game developer, Pokémon GO™, video game, virtual reality	Cynthia said, "I am meeting Sarah at the arcade." Cynthia said she was meeting Sarah at the arcade.	**Technology:** games and devices **Gaming culture across the world:** different games, technology and events all over the world	Amazing Gaming video **Before You Watch:** addictive, event, fan culture **Watch:** annoying, arcade, captivated, mannequin, popularity, release

Word List p. 40

1 Classroom Machines

Before You Watch

I will learn about machines used in classrooms.

1 Read and listen to the teacher talking to her class. What did she bring to show them?



Good morning, class! Today, we're going to talk about how communication has changed over the years – and I've brought something special to show you. See this old phone? When I was a child, nobody had smartphones like we do today. Instead, we had these types of phones. To use them, you had to lift the receiver, then press the number on a keypad. It was very easy to learn how to use it – but you had to remember a lot of telephone numbers, which wasn't always that easy!

Right, so now let's talk about the assignments you have to do. You are going to do some research about how technology has changed over the last twenty years. For example, you can look at how the Internet was created and how people develop websites now, compared to twenty years ago. But don't worry, I will help you! If you attend every class, you'll do very well in this assignment.

2 Choose words from 1 and complete.

a When you practice using a new machine you _____ it.

b When you get information about a topic you _____.

c When you make new Internet pages you _____.

d When you push a number on a keypad you _____.

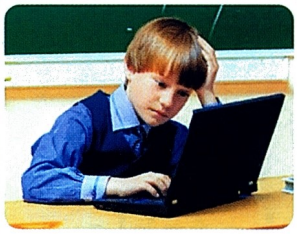
e When you answer an old phone you have to _____.

f When you go to school you need to _____.

3 Listen and number in order. Then complete the sentences.



online information ☐



individual research ☐



group project ☐



e-learning website ☐

a Have you found any _____ about languages classes yet? No, I'm looking on the Internet now.

b Sally, Gina, and I have started working on our _____, so we're going to the library to do some more research.

c Have you ever used an _____? Yes, I'm studying math online at the moment.

d We have to do _____ for this project. We're not supposed to do it in groups!

4 How does technology help you at school? Discuss and complete.



5 What other technology do you use in your school? Make a list.

irlanguage BIG tv

6 VI **Watch. Number the phrases in the order you hear or see them.**

attend a class ☐ develop a website ☐ do research

online information ☐ group projects ☐

7 VI **Watch again. Complete the table.**

When	Technology
now (Singapore)	_____
1969	_____
1934	_____
1990s	_____
now (Kenya)	_____

8 **Read and complete. Then listen and check.**

projects research computers e-learning technological



In the 1990s, _____ might not have had the processing power they have today, but had already become useful tools in classrooms. They allowed students to do individual _____ and then develop group _____, using the teacher as a helper. Today, many schools use _____ support. Brian and Martin are in high school in Kenya. They grew up using computers and in their free time, they have developed an _____ website.

مرجع زبان ایرانیان

After You Watch

9 Ask and answer with a partner.

learn to use develop do

Cathy	David	Ella	Frank	Gillian
				
✓	✗	✓	✓	✗
				
computer	smartphone	website	assignment	research



Has Cathy learned to use a computer yet?

Yes, she has. She has already learned to use a computer.



10 5 Write and match. Then listen and check.

a **Have** you **done** your assignment yet?

b _____ Carol _____ hers?

c _____ Bob and Ted _____ theirs?

d Let's go talk with Bob and Ted. Maybe they can help _____!

No, she _____. She _____ done it yet.

I already _____!

Yes, they _____. They _____ already done it.

No, I **haven't**. I **haven't** done it yet.

THINK BIG Do you prefer print books or computers? Why? Talk with a partner.

2 Saving the Environment

Before You Watch

I will learn about environmental issues.

6 1 **Read and listen about three school projects. Which one involves an alternative form of transport?**

1

Recycle Rangers



Join us in our clean-up project to help combat a serious environmental problem.

You too can be a Recycle Ranger and help to clean up our local parks and community spaces to improve the environment both for us and the local wildlife.

We'll pick up garbage and waste and take it to a recycling center, where we'll transform it into objects which can be useful to our community.

The Recycle Rangers meet at 4 p.m. every Wednesday outside the school library.

2

Ocean Watch



Let's get together this fall and make a real difference to our beautiful coast!

We're a group of around 30 volunteers, and we meet every Saturday morning at 9 a.m. at the Center for Marine Life in Washington Square.

Come along and listen to presentations, watch videos, and get involved in projects to reduce ocean pollution and help save marine wildlife.

This Saturday we'll find out about an amazing invention which uses ocean currents to generate clean energy!

3

Cycle to School Scheme



Are you interested in reducing air pollution?

Would you like to help save energy?

Are you keen to combat climate change?

Do you want to get fit, too?

It's easy – bring your bike to school!

To find out more about the benefits of the Cycle to School Scheme, pick up an information pack from the school admin office today.

2 Choose a word or phrase from 1. Write.

a The gas, oil, and electricity we use. _____

b Things that have been thrown out. _____

c Waste that makes the atmosphere dirty and unsafe.

_____

d Waste that makes the water dirty and unsafe.

_____

e The movement of seawater. _____

f An issue or situation which has a negative effect on the planet. _____

g Long-term changes in the weather. _____

3 7 Listen, look, and say.



cause



effect

4 What do you know about these environmental issues? Discuss and complete.



Environmental issue	Cause	Effects
Deforestation	_____	_____
Global warming	_____	_____
Water pollution	_____	_____
Noise pollution	_____	_____

5 What can you do to help the environment? Talk with a partner.

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



garbage ☐



ocean pollution ☐



ocean currents ☐



climate change ☐

7 V2 Watch again. Complete the table.

Who	Issue	How are they getting involved?
Carrie	_____	_____
Boyan	_____	_____
School children	_____	_____

8 8 Read and complete. Then listen and check.

plastic currents barrier change pollution garbage



Climate _____ is only one environmental problem we face. Ocean _____ is another. All over the world _____ dumped in the sea washes up on beaches. Boyan Slat has done more than worry. When he was nineteen years old, he had an idea. He suggested using the ocean _____ to get the oceans to clean themselves. His idea, a great floating _____ to catch the _____ as it is carried along by the currents, is being tested in the North Sea.

After You Watch

9 Read and match. Ask and answer with a partner.

Help the planet with these good habits:

- Ride a bike to school
- Recycle garbage
- Turn down the air conditioning
- Turn the lights off
- Use less paper
- Plant a tree
- Drive an electric car



Mary wants to save energy.

Jack loves gardening and wants to help the environment.





Laura wants to reduce air pollution.

Manny wants to save the forests.





Buzz wants to reduce ocean pollution.



What can Mary do to help the planet?

She can turn the lights off and turn down the air conditioning.



10 Write and match.

~~What are~~ | What kinds of | How can | What can

a **What are** current environmental problems?

b _____ we do to reduce the effects of climate change?

c _____ pollution are a problem?

d _____ we clean the ocean?

We can use currents to get the oceans to clean themselves.

We can save energy.

Climate change is a big environmental problem.

Air pollution is one problem. Ocean pollution is another problem.

THINK BIG What ideas do you have to reduce pollution? Brainstorm with your classmates.

3 The Wild

Before You Watch

I will learn about living in the wild

1 Read and listen. Who is worried about the children not studying for the exams?



Dad: Listen! What d'you think about this crazy idea? Alan's sports teacher wants to take the children to live in the wild for a week!

Mom: Oh, I'm all for it. Alan's fifteen now. It's important to get teenagers to face a challenge, isn't it? When I was that age, my parents wouldn't even let me spend the night in a tent in the yard!

Dad: But this is a week in a forest! They'll just waste time – no lessons, no homework – and exams start next month.

Mom: Oh come on! Just think what they'll learn. They're not allowed tents, so they'll have to make a plan and find out how to build a shelter.

Dad: Well, yes ok. But it's not just that. The teacher says he's going to make the children climb a waterfall!

Mom: What! Alan didn't tell me about that. That sounds dangerous! Perhaps we'd better go and discuss things with the school before we decide to let Alan go.

2 Choose a word or phrase from 1. Write.

a Most giant pandas live in zoos, but some still _____.

b You will get very wet if you try to _____.

c Mike lives a long way from here. Ask his mom if you can _____ after the party.

d People who can't see _____ when doing ordinary jobs.

e I haven't got a tent, so I'll have to _____.

f Come on, we're late! Don't _____ playing games.

10

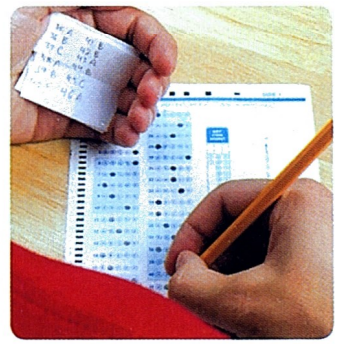
3 Listen, look, and say. Then complete the sentences.



make choices



work well together



cheat



encourage

a We're a great team and we _____.

b In the wild you have to _____ about what to do all the time.

c Our teachers always try to help us. They _____ us to do our best.

d You should never _____ in exams. It doesn't help you in the end.



4 What equipment would you need to live in the wild? Discuss and complete.

Equipment	Reason
_____	_____
_____	_____
_____	_____
_____	_____

5 Would you like to live in the wild? Why or why not? Talk with a partner.

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



climb a waterfall ☐



make choices ☐



work well together ☐



build a shelter ☐

7 V3 Watch again. Then answer the questions.

a How long will the teenagers be living in the wild? _____.

b What's wrong with the shelter the boys built? It's _____.

c What is Savannah scared of? She's scared of _____.

d Who gets up the waterfall? _____.

e At the end, what do the teenagers get as a reward?

_____ and _____.

11 8 Read and complete. Then listen and check.

heights	plan	climb	choices	together



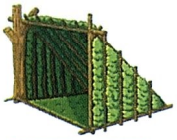
It's morning – the girls find out they have won the task. They made good choices by listening to each other, making a _____, and working _____. The boys lost because they made some bad _____. But today everyone in the team makes a brave decision. They will have to _____ this waterfall. This is not easy if you're scared of _____.

After You Watch

9 Ask and answer with a partner.



John



stay dry over night



Terri



have a great time in the wild



Kathy



get to the top of the mountain more quickly



Bruce



won't be able to make a fire while it gets dark



What will happen if John builds a shelter?

If John builds a shelter, he'll stay dry over night.



12 10 Write. Then listen and check.

~~If~~ if	don't listen you can do	try your best I'll help	you explain they won't	If ~~pays attention~~ ~~he'll know~~

a **If** Sam **pays attention**, **he'll know** what to do.

b _____ they _____ to their leader, _____ understand their tasks.

c _____ you _____, _____ almost anything.

d If _____ the problem to me, _____ you.



THINK BIG Do you think it is important to know how to make a fire? What other things are important to know how to do?

4 Mars Travel

Before You Watch

I will learn about living on Mars.

13 1 Read and listen. Has the woman decided to go to Mars?

Dave: We've looked at the photos of Mars, the red planet. They were actually taken from a satellite which is going around the planet. I have also told you about plans for a space colony of people from Earth in the future. So, the question is: Does anyone want to join this colony?

Lexi: Yes, I might be interested. I'm a journalist and I love adventure. I've traveled all over the world. The rocky landscape of Mars seems so strange and exciting! Do I need training to go to Mars?

Dave: Quite a lot, I'm afraid. You need to be strong, mentally and physically. You'd have to practice living alone in a spaceship simulator – that is a machine that copies how it feels to be in a spaceship. You'd have to live there for about a year! And you'd have to breathe oxygen from an oxygen tank.

Lexi: Well, I've already taken part in an experiment like that. I had to spend one week in a spaceship simulator. I have no problems using an oxygen tank to breathe. For example, I've climbed Mount Everest. I'm used to spending time on my own, too, because I've traveled by myself in wild and dangerous places.

Dave: I see. It sounds as if you might be the right person to go. But do you understand that you will never come back to Earth? The journey takes so long that it's a one-way ticket only.

Lexi: Oh ... I see. I didn't think of that. That makes a difference. I'll have to think about it again!



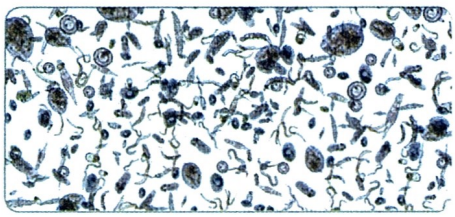
2 Choose a word or phrase from 1. Write.

a When you travel to a place and don't come back. _____
b When a group of people settle in a new area. _____
c The most important gas in the air for human life. _____
d A machine used for training someone to live in certain conditions. _____
e Earth and Mars. _____
f What scientists do to test something. _____
g A machine that travels around planets to get information. _____
h An area of mountains, rivers, forests, or fields, for example. _____

14 3 Listen, look, and say.



liquid water



organisms



survival

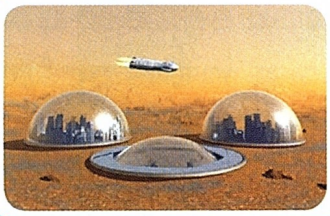
4 What do you know about space travel? Complete and discuss.

Event	Facts
first human on the moon	Apollo, Neil Armstrong, 1969

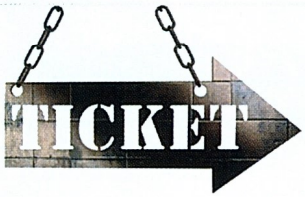
5 Would you like to go to Mars? Why or why not? Talk with a partner.

6 V4 Watch. Number the pictures in the order you hear or see them.













7 V4 Watch again. Match.

a	liquid water	first colony on Mars
b	sending robots	organisms could survive
c	staying in simulator	since 1971
d	Mars experiment	520 days
e	Dutch company	105 days in isolation

15 8 Read and complete. Then listen and check.

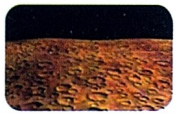
landscape	water	organisms	satellite	1971

One of the most exciting recent discoveries was that liquid _____ exists on Mars. It showed up in pictures taken by a _____. Where there is water, there is life – or so scientists believe. They think tiny _____ could survive on Mars. If small organisms can survive on Mars, maybe we can, too. Scientists have been sending robots to investigate the planet's _____ and climate since _____.



After You Watch

9 **Read and match. Then ask and answer with a partner.**

Matt		**a**	live in a space colony
Danna		**b**	travel to other planets
Ben		**c**	do space experiments
Shirley		**d**	study the landscape of Mars
Don		**e**	work with satellites



What will Matt be doing ten years from now?

He'll be living in a space colony.



16

10 **Write. Then listen and check.**

a **Danny:** What **will** you **be** doing ten years from now?
Sandy: I _____ studying at a foreign university.

b **Danny:** Really? What _____ you _____ doing twenty years from now?
Sandy: I don't know. I _____ probably _____ living in a big city.

c **Sandy:** What _____ you _____ doing ten years from now?
Danny: I _____ definitely _____ working as a scientist.

d **Sandy:** And after that? What _____ you _____ doing twenty years from now?
Danny: I _____ living on another planet!



What is your plan? What will you be doing ten years from now?

5 Up in the Air

Before You Watch

I will learn about different flying machines.

1 17 Read and listen. Who has seen an airship?

Chris: Wow! Just look at that hot-air balloon. Should we go for a ride?

Amy: I don't see what's so exciting about it. It's so much slower than an airplane.

Chris: Maybe, but hot-air balloons are such weird and wonderful contraptions. Think of the amazing view from up there! And they don't make much noise – not like helicopters or airplanes.

Amy: I guess you're right. My granddad once saw an airship, when he was a little boy. It was a bit like this hot-air balloon, but much longer and bigger, and it carried a lot more passengers. He said it was very exciting.

Chris: See? So how about that ride?

Amy: OK, why not? Let's have an adventure!

Chris: Great! When I was a little boy, I wanted to invent the first ever flying car. I even made a prototype out of boxes. Obviously, it didn't work ...

Amy: I also wanted to fly when I was a child, but not in a car. I wanted to be a superhero!



2 Choose a word or phrase from 1. Write.

a A clever and unusual type of machine. _____

b A balloon, filled with hot air, that can carry people. _____

c A vehicle that flies and has one or more engines. _____

d An aircraft with large blades that turn very fast. _____

e An aircraft with a long balloon filled with gas. _____

f A character who uses special powers to help people. _____

g A car with wings that can travel in the air. _____

h A new type of machine that has just been invented. _____

18

3 Listen, look, and say. Then fill in the gaps, changing the word where necessary.






take off motorized transport crash

This is the nine o'clock news. An airship to be used in a film about the early 20th century has _____ in a mountainous area. It _____ from Atlanta airport at ten a.m. and was _____ the film crew from Atlanta to Boston when it disappeared from the radar screen at about eleven o'clock. Air security explained that this airship – a hot-air balloon that has been _____ – is generally a very safe form of transport.

4 What superpowers would you like to have? Discuss and complete.

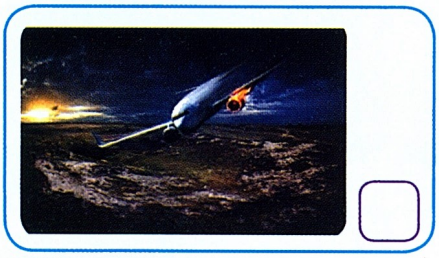


Superpower	Reason
_____	_____
_____	_____
_____	_____
_____	_____

5 What would you like to fly in? Why? Talk with a partner.

6 V5 **Watch. Number the pictures in the order you hear or see them.**





7 V5 **Watch again. Write the aircraft under the correct date.**

airship | airplane | flying car | hot air balloon | helicopter

1916	1920s	today	future
_____	_____	_____	_____
		_____	

8 19 **Read and complete. Then listen and check.**

meters | fly | technology | superhero | jump

Despite the advances of _____, we still haven't given up on flying like a _____. Every year, the International Birdman competition takes place in the UK. One man in the competition explains how it works: "What you are supposed to do is stand on the beach like this, and in a strong wind you _____ up and kick out." The participants jump off a pier and attempt to _____ using all kinds of contraptions. Tony Hughes won the competition by managing to fly for 85 _____ before crashing into the water.

After You Watch

9 Ask and answer with a partner.


Mabel


Barton


Naresh


Farrah


Marion













If Mabel could travel by any vehicle, what would she choose?

If she could travel by any vehicle, she'd travel by hot-air balloon.



10 20 Match. Then listen and check.

a	If I could have one superpower, I'd see through walls.	If I didn't have to earn money, I'd write songs to make people happy.
b	If you didn't have to go to work, what would you do every day?	If I could go anywhere, I'd go to the Great Barrier Reef in Australia.
c	If you could go anywhere, where would you go?	See through walls? Why not fly or be very strong? If I were you, I'd choose something else.
d	If you didn't have to earn money, what would you do all day?	If I didn't have to go to work, I would read books in the mornings and play basketball in the afternoons.

THINK BIG If you could have one superpower that nobody else had, what would it be? Why?

6 Time for STEM

Before You Watch

I will learn about science, technology, engineering, and math.

1 Read and listen. What does Sally's brother say about girls? Does her teacher agree?

Teacher: Hi, Sally. I've asked all the final-year students to come and see me so we can talk about their careers. Maybe I can help you with some advice. What do you think you'd like to study at college?

Sally: That's very kind of you, Mr. Thompson. Actually, I need some advice. I'm no good at history and English. What I'm really good at is science. And I got high marks in geography too, and in math. But my brother says most science students at college are boys, and that girls aren't very good at science and can't find jobs. Anyway, I'm good at math but don't really enjoy it, so I suppose science is out.

Teacher: Your brother's just teasing you, Sally. There are lots of great women scientists. And these days, more and more girls are studying engineering and technology too! Have you ever thought of studying Earth sciences?

Sally: I don't really know what that is.

Teacher: It's subjects like geography, geology, and ecology – subjects that study the environment. You don't need advanced math, and there are quite a lot of job opportunities.



Sally: That sounds great! Where can I find out more about it?

Teacher: Go online and look up different colleges and see what's on their program. Oh, and there's a video I could send you if you like.

2 Choose a word or phrase from 1. Write.

a The study of numbers, quantities, and shapes. _____

b The study of the past. _____

c The study of how things like roads or bridges are built. _____

d The study of scientific or industrial methods to make new things. _____

e The study of countries, cities, mountains, etc. _____

f The study of the natural world based on facts and experiments. _____

g The study of the Earth and its rocks. _____

3 Listen, look, and say. Then complete the sentences.



gender pay gap



special effort



careers

Unfortunately, women still get paid less than men for doing the same job. People call this the _____. We all need to make a _____ and encourage men and women to ask for equal pay! Nowadays men and women have the same _____, so they need the same pay.

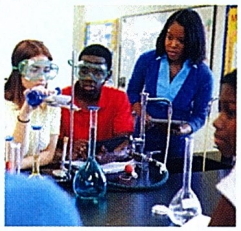
4 What did you study at school last week? Complete and discuss.



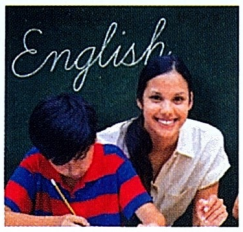
School subject	Things studied
_____	_____
_____	_____
_____	_____
_____	_____

5 What do you think is the most important subject at school? Why? Talk with a partner.

6 V6 Watch. Check (✓) what you hear or see.



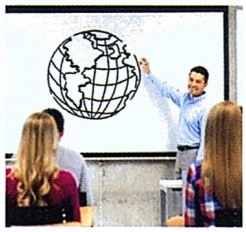
science ☐



English ☐



gender pay gap ☐



Earth sciences ☐



careers ☐

7 V6 Watch again. Match.

a	Brian Cox		invited 500 school girls
b	Michelle Obama		UK young scientist award
c	Royal Institution		science can be astonishing
d	Techcamp in Togo		inspiring women and girls
e	Roxanne		how to build a computer

23 8 Read and complete. Then listen and check.

science	STEM	engineering	lessons	designs



University technical colleges in the UK also give girls a chance to see a more practical side of _____. One student at this kind of college said, "I like _____ because it's a way that I can express myself and you actually get to see your _____ built up." School life at these colleges combines practical and normal _____ including English, history, and geography as well as the _____ subjects.

After You Watch

10 **Ask and answer with a partner. Use the words in the box.**

more	the most	fewer	the fewest



Joseph



Benjy



Anna



Suzanne



Is Joseph taking more subjects than Anna?

No, he isn't. He's taking fewer subjects than Anna.



11 24 **Choose. Then listen and check.**



a Practical experiments **make / don't make** science fun.

b In most countries, **men / women** earn more than **men / women**.

c If **girls / boys** are interested in STEM subjects, they may get **better / worse** paid jobs later.

d "We need strong, smart, **confident / pretty** young women," Michelle Obama said.

THINK BIG What do you want to do for your career? How do you need to prepare?

7 Mystery: Crop Circles

Before You Watch

I will learn about the mystery of crop circles.

1 25 Listen, number, and say.

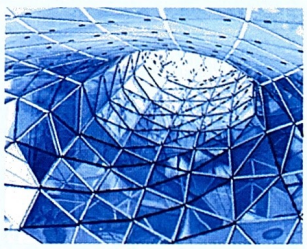

weather patterns ☐


aliens ☐


man-made ☐


paranoia ☐


crop circle ☐


geometrical pattern ☐


UFO ☐


radiation ☐

2 Choose a word or phrase from 1. Write.

a Creatures from space. _____

b A flying object from space. _____

c A large pattern found in a field. _____

d A pattern made from lines and shapes. _____

e A feeling that people are trying to hurt you. _____

f A combination of weather systems. _____

g A thing made by people. _____

h A dangerous energy coming from chemicals. _____

3 Read and complete. Then listen and check.

26

Judy: Hey, Tom, I saw this fantastic thing in the sky last night – like a very bright star, but it was changing color all the time. Do you think it was a _____?

Tom: Oh come on! You don't believe in flying machines from other planets, do you? Or _____ looking like little green men?

Judy: Well, I suppose not. But what else could it be?

Tom: Probably something scientists have invented. A _____ object, in other words!

Judy: I suppose you're right. But it could really be dangerous then, and produce _____ or something poisonous!

Tom: That's just _____! You think everything is dangerous and it's going to hurt you. That's just not true!

Judy: OK, then. Perhaps I was just dreaming. But what about this other thing that I heard about on the radio? A weird _____ appeared during the night in a field near here. They call it a _____ because it's round, like a circle, and it's in a farmer's field.

Tom: Oh, that? I think it's just because of changing _____. You know, when we first had those strong winds, then no wind at all. You shouldn't believe everything you hear!

4 Do you agree with Tom? What do you think makes crop circles? Why? Talk with a partner.

5 Listen, look, and say.

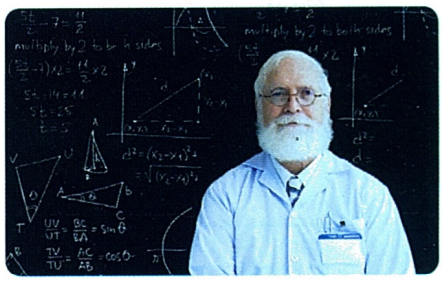
27



geochemist



psychologist

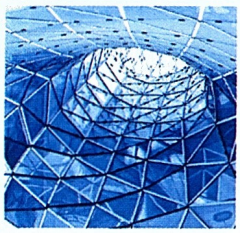
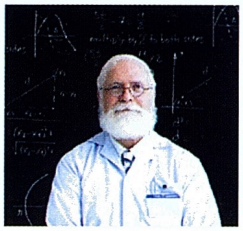


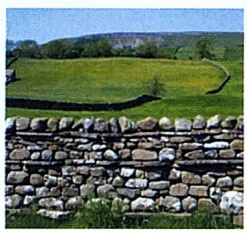
mathematician

6 Which of the three people in 4 do you think has the most interesting job? Complete the sentence.

I think _____ has the most interesting job, because _____.

7 V7 Watch. Check (✓) what you hear or see.

8 V7 Watch again. Match.

a	group of artists	151 circles
b	famous crop circle	tests the soil in crop circles
c	Geochemist Mark Hodson	reproduce circles
d	scientist Christopher French	believes human psychology explains crop circles

28 9 Read and complete with words from the box. Then listen and check.

mysterious	set	causes	circles	crops	believe



Another mystery: crop circles. They appear every year. People wonder what _____ these geometrical patterns of flattened cereal _____. Most appear in the dead of night, and are believed to have _____ origins and even mystical powers. Are they made by humans, unknown weather patterns, or even aliens? Crop circle researchers _____ that most circles are too sophisticated to be man-made. This is the layout of the Julia _____, a famous crop circle that appeared in the UK, made up of 151 _____.

After You Watch

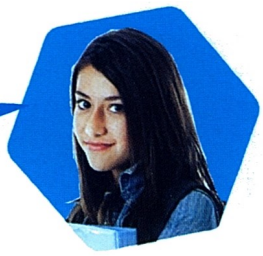
10 Match. Ask and answer with a partner.

a		can be dangerous	isn't it?
b		is man-made	can't it?
c		haven't been seen here	aren't they?
d		couldn't have made the crop circles	could they?
e		are changing	have they?



Weather patterns are changing, aren't they?

Yes, I believe they are!



29 11 Write and match. Then listen and check.

a	Stonehenge is in England, <u>isn't it</u>?	Yes, they do.
b	Crop circles usually appear in cereal crops, _____?	No, I haven't!
c	You haven't seen an alien, _____?	Yes, it is.
d	He's not paranoid, _____?	Yes, he is!

THINK BIG Do you believe in aliens? Why or why not? Talk with a partner.

8 Moving Landmarks

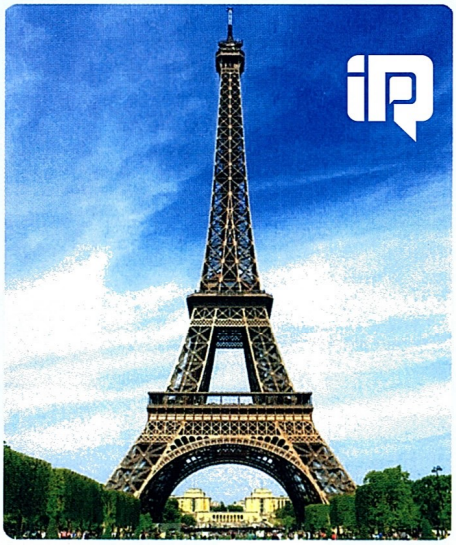
Before You Watch

I will learn about different landmarks.

30 **1** **Listen, look, and say.**



structure

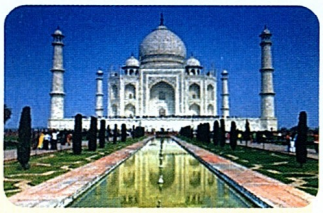


original



replica

2 **What do you know about these landmarks? Discuss and complete.**



Landmark	**Where is it?**
Eiffel Tower	_____
Taj Mahal	_____
Machu Picchu	_____
Big Ben	_____
Leaning Tower of Pisa	_____

3 **What landmark would you most like to see? Why? Talk with a partner.**

4 Listen, number, and fill in the missing word.



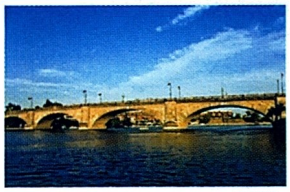
Great _____ of China ☐



Eiffel _____ ☐



_____ of Liberty ☐



_____ Bridge ☐



Leaning _____ of Pisa ☐



Tower _____ ☐



Big _____ ☐

5 Choose a word or phrase from 1. Write.

a One of the world's most famous landmarks is the _____. This is a metal tower right in the centre of Paris.

b There are a lot of famous landmarks in London. _____ is a bell, next to the Houses of Parliament, that rings every hour. And _____ is a famous bridge across the River Thames. It has two tall towers.

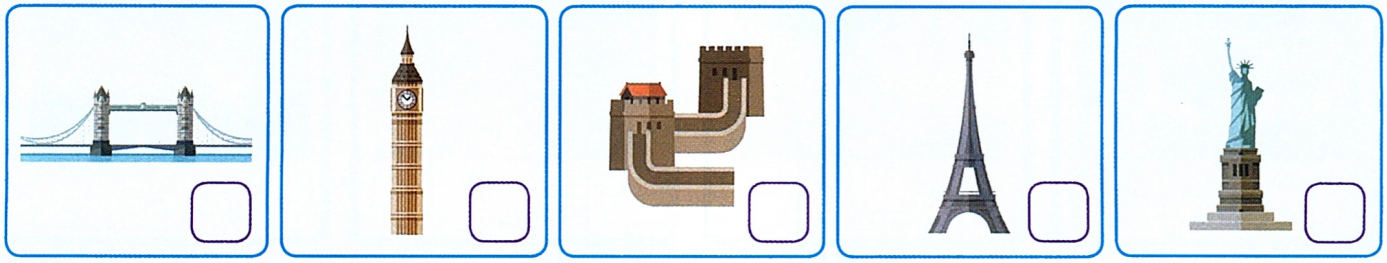
c _____ is another famous bridge. But the original one is not in London – it's actually in Arizona, USA!

d When people came to New York on a ship, the first thing they saw was a huge statue called the _____.

e When buildings aren't straight, they will fall, won't they? Not necessarily. The _____ in Italy has been leaning over for hundreds of years – without crashing to the ground!

f The _____ is an amazing sight. It was built thousands of years ago to protect the Chinese states.

6 V8 Watch. Number the pictures in the order you hear or see them.

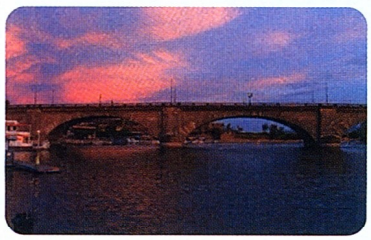


7 V8 Watch again. Complete the table.

Landmark	Details
_____	symbol of freedom
_____	also designed by Gustave Eiffel
_____	often confused with London Bridge
_____	a lifesize replica
_____	starting to lean

32 8 Read and complete with words from the box. Then listen and check.

Atlantic	Bridge	Arizona	Thames	Tower Bridge



Back in 1968, London _____ was getting ready for a long journey. It was sold, taken apart in pieces, and then transported across the _____, all the way to _____, in the USA, where it was rebuilt. Legend says the American buyer made a mistake and thought he had purchased the more impressive _____, often confused with London Bridge. He denied it. In any case, the London Bridge over the River _____ today is not the original.

After You Watch

9 Match. Ask and answer with a partner.











Big Ben	built more than two thousand years ago
Great Wall of China	designed by Alexandre Gustave Eiffel
Eiffel Tower	renamed the Elizabeth Tower in 2012
Statue of Liberty	across the River Thames
Tower Bridge	in New York



What do you know about Big Ben?

The tower of Big Ben was renamed the Elizabeth Tower in 2012.



33 10 Write. Then listen and check.

destroy build paint form ~~complete~~

a The Eiffel Tower **was completed** in 1889.

b The pyramids in Mexico _____ by the Mayans three thousand years ago.

c The Colossus of Rhodes _____ by an earthquake in 226 BC.

d The Mona Lisa _____ in about 1504 CE.

e The Himalayan mountains _____ many millions of years ago.

THINK BIG

What is your favorite landmark in your own country? When was it built?



9 Amazing Gaming

Before You Watch

I will learn about the past and future of gaming.

1 34 Read and listen.

One of the first successful video games was Space Invaders. People had to go to an arcade to play it. In those days you didn't play games at home. Now people play games like Pokémon GO™ on their own devices – usually their smartphones. Games today also have a lot of interesting characters that the players can relate to.



Gaming has become very popular. A lot of games involve virtual reality, so you actually think you are in a real environment and not just an imaginary one. There are fan conventions where hundreds of gamers go to discuss their games. And becoming a game developer is now a very popular career choice, because you have to create new games all the time!



2 Choose a word or phrase from 1. Write.

a Someone who makes a game. _____

b A place where people go to play electronic games. _____

c A large meeting. _____

d Clever machines you can use for things like playing games. _____

e People who appear in a game, film, or story. _____

f A simulated world created by a computer. _____

g An app-based game involving moving around. _____

h An old type of electronic game. _____

3 Listen, look, and say. 35



fan culture



addictive



event

4 Write.

There's a real _____ culture around gaming. People who love it, go to _____ to play and talk about their favorite games – and meet other enthusiasts. But some people say gaming is bad for you because it can be very _____.

5 What games have you played? Describe them. Discuss and complete.



Game	Description
_____	_____
_____	_____
_____	_____
_____	_____

6 What is the best game you've ever played? Why? Tell a partner. Explain how to play it.

7 V9 Watch. Check (✓) what you hear or see.

Space Invaders	☐	game developers	☐	arcade	☐
virtual reality	☐	devices	☐		
characters	☐	fan culture	☐		

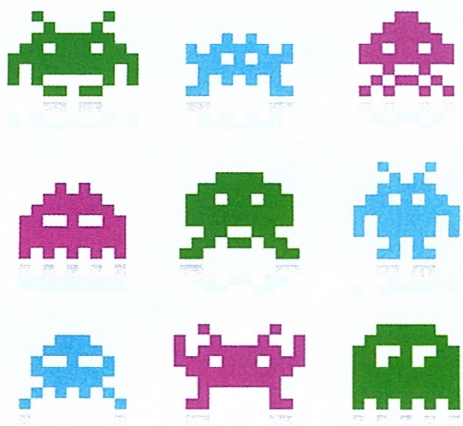
8 V9 Watch again. Complete the table.

Who	How they described gaming
Two boys in Hong Kong	_____
Girl in green top	_____
Girl dressed as Lulu	_____
Girl with glasses	_____

36 9 Read and complete. Then listen and check.

virtual hug Developers Space games

_____ have created _____ that appeal to our sense of touch. Users wear a special vest. When they _____ the mannequin, it actually feels like the mannequin is hugging back. Gaming has come a long way since _____ Invaders. In the future, _____ reality will enable us to "live" a vast range of experiences or even completely different lives within a game environment.



37 10 Read. Then write. Listen and check.

a STELLA — "I love Pokémon Go™!"

b PETER — "I want to dress as my favorite character."

c JACINTA — "I've never heard of Space Invaders."

d BOBBY — "I'm meeting Sam at the arcade."

e JANET — "I want to be a game developer in the future."

a Stella said she **loved Pokémon GO™** .

b Peter said he _____ .

c Jacinta said she _____ .

d Bobby said he _____ .

e Janet said she _____ .



38 11 Write and match. Then listen and check.

a	Cynthia said, "I am meeting Sarah at the arcade."	Cynthia said she **was meeting** Sarah at the arcade.
b	Tommy said, "We are dressing up as characters to go to the convention!"	Damien said they _____ _____ to the movies.
c	Rachel said, "I'm reading a new book on my device."	Tommy said they _____ _____ up as characters to go to the convention.
d	Damien said, "We're going to the movies."	Rachel said she _____ _____ a new book on her device.

THINK BIG What has someone told you recently? Tell a partner. Begin: X told me that he/she …

Word List

1 Classroom Machines

attend every class
develop a website
do research
learn how to use
lift the receiver
press the number
e-learning website
group project
individual research
online information

2 Saving the Environment

air pollution
climate change
energy
environmental problem
garbage
ocean currents
ocean pollution
cause
effect

3 The Wild

build a shelter
climb a waterfall
face a challenge
live in the wild
spend the night
waste time
cheat
encourage
make choices
work well together

4 Mars Travel

colony
experiment
landscape
one-way ticket
oxygen
planet
satellite
simulator
liquid water
organisms
survival

5 Up in the Air

airplane
airship
contraption
flying car
helicopter
hot-air balloon
prototype
superhero
crash (v)
motorized
take off (v)
transport (v)

6 Time for STEM

engineering
geography
geology
history
math
science
technology
career
gender pay gap
special effort

7 Mystery: Crop Circles

aliens
crop circle
geometrical pattern
man-made
paranoia
radiation
UFO
weather patterns
geochemist
mathematician
psychologist

8 Moving Landmarks

Big Ben
Eiffel Tower
Great Wall of China
Leaning Tower of Pisa
London Bridge
Statue of Liberty
Tower Bridge
original
replica
structure

9 Amazing Gaming

arcade
characters
convention
devices
game developer
Pokémon GO™
video game
virtual reality
addictive
event
fan culture



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