	VOCABULARY	GRAMMAR	LISTENING
1 Lives people live BBC (6 p. 116 Student accommodation	pp. 4–5 Personality; un-, in-, im-, ir-, dis-; questions with like Reading: Charity p. 15 Word list	 p. 6 Present tenses – question forms; subject and object questions; wh- questions p. 117 FOCUS VLOG & GRAMMAR ANIMATION & 	p. 7 Voluntary work Vocabulary: -ive, -ative, -able, -ing Exam Focus: Note completion Pronunciation Focus: Word stress – personality adjectives
2 Science and technology BBC & p. 118 Urban legends	 pp. 18–19 Phones and computers; word building; collocations Listening: Famous scientists p. 29 Word list 	 p. 20 Past Continuous and Past Simple p. 119 FOCUS VLOG & GRAMMAR ANIMATION & 	 p. 21 Becoming a scientist Vocabulary: Science and scientists; collocations Exam Focus: Matching Pronunciation Focus: Word stress – scientists
3 The arts BBC & p. 120 The Musketeers	 pp. 32–33 TV programmes; adjectives; elements of a film/TV drama Reading: One episode is never enough p. 43 Word list 	 p. 34 Comparative and superlative adjectives GRAMMAR ANIMATION 6 	 p. 35 A street artist Vocabulary: Art and artists Exam Focus: Multiple choice Pronunciation Focus: Word stress – countries and nationalities
4 Home sweet home BBC 6 p. 122 Cave houses	 pp. 46–47 Describing houses; inside a house; make or do Listening: The narrowest house in the world p. 57 Word list 	 p. 48 Present Perfect with <i>for</i> and <i>since</i> p. 123 FOCUS VLOG & GRAMMAR ANIMATION & 	 p. 49 Teenagers' rooms Vocabulary: Phrasal verbs Exam Focus: Matching Pronunciation Focus: Long vowel sounds
5 Time to learn BBC 6 p. 124 South Korean schools	 pp. 60–61 Education; phrasal verbs; collocations Reading: School systems around the world p. 71 Word list 	p. 62 First Conditional GRAMMAR ANIMATION &	 p. 63 Dealing with exam stress Vocabulary: get Exam Focus: True/False Pronunciation Focus: Large numbers
6 Just the job ввс с р. 126 Window cleaning	 pp. 74–75 Collocations; describing jobs; phrasal verbs Listening: The worst jobs p. 85 Word list 	 p. 76 Second Conditional p. 127 FOCUS VLOG & GRAMMAR ANIMATION & 	 p. 77 Becoming an airline pilot Vocabulary: Collocations; jobs Exam Focus: Multiple choice Pronunciation Focus: Stress in job names
7 Consumer society BBC & p. 128 Cheap shopping	 pp. 88–89 Shops and services; clothes and appearance; collocations Reading: The truth about shopping p. 99 Word list 	p. 90 The Passive GRAMMAR ANIMATION &	 p. 91 Buying presents Vocabulary: Word families Exam Focus: Matching Pronunciation Focus: Silent letters
8 Well-being BBC & p. 130 Keeping fit	 pp. 102–103 Symptoms; health; phrasal verbs Reading: Apps to keep you fit p. 113 Word list 	p. 104 Past Perfect p. 131 FOCUS VLOG & GRAMMAR ANIMATION &	 p. 105 Central Park Vocabulary: Places to do sport Exam Focus: Multiple choice Pronunciation Focus: Diphthongs

READING	GRAMMAR	USE OF ENGLISH	WRITING	SPEAKING	FOCUS REVIE
pp. 8–9 A brief guide to the generations Vocabulary: Verb + preposition Exam Focus: Matching	p. 10 Verb + -ing or verb + to infinitive Vocabulary: Clothes GRAMMAR ANIMATION &	p. 11 so and such Multiple-choice cloze	pp. 12–13 Writing Focus: A personal email/ letter Language Focus: Adjective + preposition	p. 14 Showing interest ROLE-PLAY &	рр. 16–17
pp. 22–23 Science at the South Pole Vocabulary: Nouns and verbs; the temperature Exam Focus: Multiple choice	p. 24 used to GRAMMAR ANIMATION &	p. 25 Linkers and time expressionsMultiple-choice cloze	pp. 26–27 Writing Focus: A story Language Focus: Informal linkers	p. 28 Telling a story ROLE-PLAY &	pp. 30–31
pp. 36–37 Superheroes Vocabulary: Books; cinema; phrasal verbs Exam Focus: Matching	 p. 38 Present Perfect with just, already, (not) yet and Past Simple GRAMMAR ANIMATION 6 p. 121 FOCUS VLOG 6 	p. 39 too and not enough Key word transformation	pp. 40–41 Writing Focus: A film review Language Focus: Adjectives to describe films, plots, screenplays etc.	p. 42 Describing a photo ROLE-PLAY &	рр. 44–45
pp. 50–51 People who don't live in traditional houses Vocabulary: Landscape features; describing places; collocations Exam Focus: Gapped text	 p. 52 Future forms: Present Continuous, be going to and will GRAMMAR ANIMATION 6 	p. 53 Adverbs Multiple choice	pp. 54–55 Writing Focus: A blog entry Language Focus: Punctuation – commas	p. 56 Making suggestions ROLE-PLAY &	pp. 58–59
pp. 64–65 Different, not less Vocabulary: Nouns and verbs; of and for Exam Focus: Matching	 p. 66 Defining relative clauses GRAMMAR ANIMATION & p. 125 FOCUS VLOG & 	 p. 67 Future time and conditional clauses Sentence transformation 	pp. 68–69 Writing Focus: An enquiry Language Focus: Indirect questions	p. 70 Giving an opinion; agreeing and disagreeing ROLE-PLAY &	pp. 72–73
pp. 78–79 Personality types and careers Vocabulary: Compound nouns; word families Exam Focus: Multiple matching	 p. 80 Modal verbs for obligation and permission GRAMMAR ANIMATION 6 	p. 81 Adjectives ending in <i>-ed</i> and <i>-ing</i> Multiple choice	pp. 82–83 Writing Focus: A job application Language Focus: Formal language in a job application letter	p. 84 Asking for and giving advice ROLE-PLAY &	pp. 86–87
pp. 92–93 The brains behind Amazon.com Vocabulary: Shopping Exam Focus: Multiple choice	p. 94 Quantifiers GRAMMAR ANIMATION & p. 129 FOCUS VLOG &	p. 95 Indefinite pronouns: someone, anything, nowhere, everybody, none, etc. Sentence transformation	pp. 96–97 Writing Focus: A formal written complaint Language Focus: Formal language	p. 98 Shopping ROLE-PLAY &	pp. 100–101
pp. 106–107 The tower that sucks in smog and spits out clean air Vocabulary: Pollution; word families Exam Focus: Open- ended questions	р. 108 Reported Speech GRAMMAR ANIMATION &	p. 109 Phrasal verbs Gapped sentences	pp. 110–111 Writing Focus: A reader's comment – linkers Language Focus: Structures with make	p. 112 A doctor's appointment ROLE-PLAY &	pp. 114–115

pp.116–131 Video worksheets pp. 132–155 Grammar and Use of English reference and practice

p. 156 Prepositions p. 157 Phrasal verbs p. 158 Pronouns and numerals p. 159 Irregular verbs



VOCABULARY

Online • phones and computers • word building • collocations

I can use language related to science, technology and inventions.

SHOW WHAT YOU KNOW

- 1 Choose the correct verb. Then complete the sentences to make them true for you.
 - 1 The first thing I do when I visit / go online is ...
 - 2 The person I'd like to watch / follow on Twitter is ...
 - **3** The website I *visit / go in* most is ...
 - 4 The last music I downloaded / followed was ...
 - 5 The last comment I posted / sent on social media was ...
 - 6 The last time I updated / revised my social media profile was ...
- 2 SPEAKING Compare your sentences with a partner. How much time do you typically spend online each day?

SCIENCE AND OUIZ

Match the years with these digital inventions.

- (1977 1984 1990 1993 1994)
- 1 The first web browser ____
- 2 The first search engine ____
- 3 The first laser printer _____
- 4 The first desktop computer with keyboard and mouse ____
- 5 The first smartphone

BONUS QUESTION: Which company made the first computer with a mouse?

Which sciences were these great scientists mostly involved in?

astronomy, biology, chemistry, computer science, mathematics, physics







Nicolaus Copernicus

Isaac Newton

Charles Darwin

Science and technology

Necessity is the mother of invention. A proverb

BBC



URBAN LEGENDS

6 Watch the BBC video. For the worksheet, go to page 118.

BONUS QUESTION: Which scientist won two Nobel Prizes? For Review Purpose Only 3 (1) 1.24 Do the Science and Technology Quiz. Then listen and check your answers.

4 (1) 1.25 Complete sentences 1–5 with the correct scientist in the quiz. Then listen to Part 2 again and check your answers.

- 1 <u>did</u> experiments with radioactive materials and <u>discovered</u> polonium and radium.
- 2 <u>did</u> research into gravity, light and many areas of physics, maths and astronomy.
 - <u>invented</u> the idea of a 'Universal Machine' or a computer in 1936.
- 4 <u>developed</u> the theory that the Earth moves around the Sun.
- 5 <u>observed</u> nature. He <u>took</u> notes and measurements and <u>collected</u> specimens from around the world.

Are statements 1–3 true (T) or false (F)?

- 1 Albert Einstein failed Mathematics at school. T / F
- 2 An earthquake can shorten the length of a day. T / F
- 3 Some people are left-brained, others are right-brained. T / F



BONUS QUESTION: What percentage of our brain do we normally use?





Alan Turing

Marie Sklodowska-Curie

Go to WORD STORE 2 page 5

WORD STORE 2A Phones and computers

- 5 (1) 1.26 Complete WORD STORE 2A with the compound nouns in red in the quiz. Then listen, check and repeat.
- 6 Complete the questions with compound nouns in WORD STORE 2A.
 - 1 How many _____ messages do you usually send in a day?
 - 2 Do you always use the same ______name and password online?
 - 3 Have you got a _____ computer or a laptop?
 - 4 Which is the most popular search _____ in your country?
 - 5 Which ______ browser do you normally use?
 - **6** Have you got a reliable _____ connection with fast download speeds?
 - **7** Do you like typing on a smartphone or do you prefer to use a key______?
- 7 SPEAKING Ask and answer the questions in Exercise 6.

WORD STORE 2B Word building

8 (1) 1.27 Complete WORD STORE 2B with the science subjects in the quiz. Then listen, check and repeat.

9 SPEAKING Discuss the questions.

- 1 Would you like to be a scientist? Why?/Why not?
- **2** Which science subject do you find easiest/most difficult to understand?
- **3** Which science subject do you think will be most useful to you in the future? Why?

NORD STORE 2C Collocations

- 10 (1) 1.26 Complete WORD STORE 2C with the infinitive form of the underlined verbs in Exercise 4. Then listen, check and repeat.
- 11 Complete the sentences with the correct verb in Word Store 2C in an appropriate form.
 - 1 Tim has ______a new program. It will change how people manage databases.
 - 2 Rowena _____ the sky at night. She hopes to _____ a new planet.
 - 3 Lucie ______ wild plants to develop new drugs.
 - 4 Fred is _____ research into laser technology for his doctorate.
 - 5 Lena _____ experiments on plastics to measure how strong they are.
 - 6 George looks at big numbers and _____ He produces formulas to solve problems.
- 12 SPEAKING What kind of scientist is each person in Exercise 11? Discuss which science you think is the most/least important to society.
 - 1 Tim = a computer scientist

For Review Purpose Only

otes.



GRAMMAR

Past Continuous and Past Simple I can use the Past Simple and Past Continuous to describe past events.

SPEAKING Read what people say about e-books and printed books. Which comments do you agree with? Think of more advantages and disadvantages. Discuss with a partner.

- (1) When I go on holiday, I don't have to pack heavy books.
 - 2 I like the feel of a real book in my hands.
- 3 I work with computer screens all day I don't want to read books on a screen too.
 - (4) Books are so expensive. E-books are cheaper.
 - 2 Read about E ink. Who was Joe Jacobson and why did he have a 'Eureka' moment?



In 1997 Joe Jacobson was working as a researcher for the Massachusetts Institute of Technology (MIT). One summer, he went on holiday to the coast. He was lying on a beach when he finished his book. Unfortunately, he didn't have another one with him. At that moment, he imagined

an electronic book that he could download any time he wanted and read in direct sunlight. It was a 'Eureka' moment. His vision became E ink technology and helped develop the e-readers that we have today.

3 Read the GRAMMAR FOCUS. Complete the examples using the past forms in blue in Exercise 2.

GRAMMAR FOCUS

Past Continuous and Past Simple

- You use the Past Continuous to talk about longer actions in progress at a time in the past.
 In 1997 Joe Jacobson ¹_____ as a researcher for MIT.
- You often use the Past Continuous with the Past Simple usually when a short action (Past Simple) interrupted a longer action (Past Continuous). He² on a beach when he
 ³ his book.

Past Continuous: was/were + -ing form

- + I was working etc.
- She wasn't working etc.
- ? Were you working? etc.

4 Complete the beginnings of two stories with the Past Simple or the Past Continuous form of the verbs in brackets.



	ormy night six months after My mother ¹ was sitting
	re, waiting for her baby to
arrive. She 2	(feel) sad and ill.
Suddenly she 3	(hear)
a noise outside. 'T	here's someone at the door,
Peggotty,' my mot	ner ⁴ (call).
'Who is it?' Peggot	ty was her servant and her
only real friend. 'I'll	go and see,' Peggotty
5(reply). She ⁶
(go) and ⁷	(open) the door.

David Copperfield

As the carriage moved quickly along the rough dry road, Jonathan Harker ⁸	Men.
(look out) at the changing view. Behind him was	
a land of small, green hills and colourful fields of	
fruit trees. Now he ⁹ (drive) into the	Dive
Transylvanian mountains through a thick forest. It	
¹⁰ (get) dark, and the other people	
in the carriage ¹¹ (be) quiet and	-
afraid. A woman opposite him ¹²	U. Disedant
(reach) towards him and ¹³ (put)	A second
something in his hand. It ¹⁴ (be)	Theory Digit Asides
a small, silver cross. 'Wear it around your neck,'	Dracyla
she said. 'You'll be safe.'	have hime

- 5 SPEAKING Which story would you like to continue reading and why? Tell your partner.
- 6 Complete each sentence with one Past Simple and one Past Continuous verb form. Which sentences are true for you?
 - 1 My parents were studying (study) when they <u>met</u> (meet).
 - 2 My computer _____ (crash) when I _____ (do) my homework last night.
 - 3 I _____ (watch) a film when my mum _____ (get) home yesterday.
 - 4 It _____ (rain) when I _____ (wake up) this morning.
 - 5 I _____ (burn) myself when _____ (make) breakfast.
 - 6 A friend _____ (text) me when I ____ (walk) to school.
- 7 Write questions for the sentences in Exercise 6. Change pronouns where necessary. Then ask your partner as in the example.
 - A: Were your parents studying when they met?B: No, they weren't.

FOCUS VLOG About technology

(68) Watch the Focus Vlog. For the worksheet, go to page 119.

Grammar page 135



LISTENING

Matching

I can identify key details in a simple recorded narrative about scientists.

▲ 1.29 Label the photos with the words in the box. Then listen, check and repeat.

linguistics geology marine biology archaeology psychology conservation

EXAM FOCUS Matching

- 2 **(1.30)** Listen to two conversations and choose the correct answer.
 - 1 What does the girl want to study in the future? photo A photo B photo D
 - 2 The girl and the boy have both seen one of the documentaries. What was it about? photo B photo E photo F
- 3 (1) 1.31 SPEAKING Complete the job descriptions with the jobs in the box. Then listen, check and repeat. Do you know anybody who does one of these jobs? Tell your partner.

A linguist A geologist A marine biologist A psychologist An archaeologist A conservationist

- 1 ______ studies and often speaks a lot of languages.
- 2 ______ studies ways of protecting the environment.
- 3 ______ studies rocks and the history of the Earth.
- 4 ______ studies how people behave and how their minds work.
- 5 ______ studies people who lived thousands of years ago.
- **6** ______ studies, observes and protects oceans.
- 4 (1) 1.32 Listen to five speakers talking about why they became scientists. Which job in Exercise 3 does each person do?

5 **1.32** Listen again. Match speakers 1–5 with statements A–F. There is one extra statement.

Speaker 1:

Speaker 2: ()

Speaker 3: Speaker 5: Speaker 4:

A I want to understand how early childhood affects behaviour.

- **B** I'm keen on studying how machines can communicate.
- C I want to explore oceans and preserve the ocean environment.
- **D** I'm interested in studying our prehistoric ancestors.
- E I want to study the evolution of our planet.
- F I want to find solutions to nature's problems.













PRONUNCIATION FOCUS

6 (1.33) Complete the table. Then listen, check and repeat. Mark the stress.

Subject

 1
 archaeology

 2
 conservation

 3
 geology

 5
 d

archae <u>o</u> logis	
analyst	

Job

<u>ling</u>uist psy<u>chol</u>ogist

7 SPEAKING Practise the words in Exercise 6 as in the example. Pay attention to the stress.

A: What does an archaeologist do? B: Archaeology.

WORD STORE 2D Collocations

- 8 (1) 1.34 Complete WORD STORE 2D with the words in the box. Then listen, check and repeat.
- 9 Complete the statements about the speakers with the words and phrases in WORD STORE 2D.
 - 1 The marine biologist wants to collect about global warming.
 - 2 The linguist has published ______ on robot communication.
 - 3 The psychologist loves doing research and analysing
 - 4 The archaeologist spent _____ in the Egyptian room in the Louvre.
 - **5** The conservationist is doing research into climate change to help protect ______.
- 10 SPEAKING How common is it to study the same subjects as your parents? Think about your friends and family. What will you do? Discuss with a partner.

READING

Multiple choice

I can scan an interview to locate specific information.

SPEAKING Look at the photos of Antarctica. Discuss the questions.

1 What do you think it's like working there?

2 What kind of jobs do you think people do?

- 2 Look at comments from people interested in working in Antarctica. Which of them are suitable in your opinion?
 - 1 'I don't mind working long hours.'
 - 2 'I don't like the dark.'
 - 3 'I need my own space.'
 - 4 'I'm very fit and healthy.'
 - 5 'l expect to earn lots of money.'
 - 6 'I want to save the planet.'
- (1) 1.35 Listen to a talk about working in Antarctica. 3 Check your ideas in Exercises 1 and 2.
- 4 SPEAKING Discuss whether you would like to work in Antarctica. Explain why or why not.
- Read an interview with a research scientist and answer 5 the questions.
 - 1 What is the population of Antarctica?
 - 2 What did Jane Roberts do in her free time in Antarctica?
 - 3 What did she miss most when she was there?

EXAM FOCUS Multiple choice

- Read the text again. For questions 1-5, choose the 6 correct answer, A, B, C or D.
 - 1 The South Pole Station is named after A the first person to reach the South Pole. **B** the first person who died after reaching the South Pole. C the five people who died after reaching the South Pole. D the first two explorers to reach the South Pole.
 - 2 People who work in Antarctica A are residents of Antarctica. B live in small towns. C stay for a period of time in research stations.
 - D return to their country in winter.
 - 3 Jane discovered that A she likes working in a laboratory. **B** millions of years ago dinosaurs lived on ice.
 - C the Antarctic wasn't always cold.
 - D research is like doing a jigsaw.
 - 4 The temperature at the South Pole A is -80 degrees all year round. B is usually above zero in summer.
 - C never rises above zero.
 - D is too cold to go outside.
 - 5 In the interview, Jane
 - A describes her experience of working in Antarctica.
 - **B** encourages tourists to visit Antarctica.
 - C explains how researchers apply for jobs in Antarctica. **D** presents her research into the weather in Antarctica.

- 7 ■ 1.37 Match the words in blue in the text with the definitions in the box. Then listen, check and repeat.
 - 1 several sheets of material on top of one another = layers
 - 2 the skeleton = _
 - 3 a place where planes can land = _____
 - 4 organise and manage = _
 - **5** a place to eat, usually in a school or factory
 - 6 a picture cut into small pieces that you put together = ___
 - 7 arrived (at a place) = ____
- 8 SPEAKING Complete the questions with the correct form of the words in Exercise 7. Then ask and answer the questions.
 - 1 How long does it take you to _____ _home after school?
 - 2 Do you usually have lunch in the school ?
 - 3 Have you ever completed a 1,000-piece
 - 4 Would you like to _____ your own business one day?
 - ___of clothing do you wear 5 How many _____ when you go outside in winter?
 - 6 Do any museums in your city have dinosaur ?
- (1) 1.38 Listen to the words and phrases in the box and repeat them. Then complete the text.

above/below zero average temperature (0°) degrees centigrade (Celsius) plus/minus 10°C The temperature rises/falls to (+40°/-80°) degrees.

Antarctic weather

The interior of Antarctica is the coldest place on Earth. The hottest month at the South Pole is January with an average temperature of minus 25¹_ centigrade. This is the summer in Antarctica. In fact, the temperature in Antarctica has never risen² zero. The warmest temperature ever recorded at the South Pole (on December 25, 2011) was ³ 12.3 degrees ⁴_____. In winter, temperatures

5

_ to 80 degrees centigrade ⁶

zero. The coldest month is September.

10 SPEAKING Tell your partner about the last time you experienced an extreme temperature, hot or cold. Use the questions to prepare.

- 1 When did you experience an extreme temperature?
- 2 Where were you and what were you doing at the time?
- 3 What was the temperature? How long did it last?
- 4 How did you manage and what did you do?
- **5** Do you like extreme temperatures? Why?/Why not?

WORD STORE 2E | The temperature >

11 (1) 1.39 Complete WORD STORE 2E by arranging the adjectives in order from coldest to hottest. Then listen, check and repeat.

Science at the South Pole



♦) 1.36

Jane Roberts is a marine biologist. She worked for two years in Antarctica. Here, she answers your questions.

Is there really a pole at the South Pole?

Yes, there is. It's in front of the Amundsen-Scott South Pole Station. In 1911 a Norwegian explorer called Roald Amundsen was the first person to get there, followed by a British man, Robert Falcon

- 5 Scott, thirty-four days later. Unfortunately, Scott and his team of five all died on the return journey. When the first explorers reached the South Pole there was nothing there. Now, several hundred people work at the Station. There's an airstrip for small planes,
- 10 a canteen, hot showers, a post office, a tourist shop, a basketball court and a movie theatre.

Who does Antarctica belong to?

Antarctica doesn't belong to any nation. There's no permanent population, but there are bases that look like small towns. Thirty different countries **run** about 15 seventy research stations in Antarctica. People stay

there between three and eighteen months. Most people work only in the summer months, but some stay all year round. The population is around 4,000 in summer and 1,000 in winter.

Why did you want to work in Antarctica?

20 I was studying in London and I read about an exciting research project in Antarctica. I applied for the job, but thousands of other people also applied. I was lucky!

What exactly were you doing there?

I was doing research into marine life. I collected specimens of ice and examined them in the laboratory. There are layers of 25 ice thousands of years old! We found the remains of a dinosaur. It was in millions of pieces and we had to put all the pieces together like a jigsaw. Our research showed us that millions of years ago the Antarctic was much warmer.

What did you wear in Antarctica?

It's extremely cold all year round. When I was doing 30 experiments outside, I wore three pairs of socks and often five layers of clothing. Winter temperatures fall to -80°C and even summer temperatures are below zero at the South Pole. For several months, there's no sunlight at all. Sometimes it's too cold to go outside.

What did you do in your free time?

35 When it was snowing, we read lots of books and played games. There isn't much to do in Antarctica, but I enjoy reading and I made some good friends there too.

Did you miss home?

No, but I missed colours – it's very white in Antarctica! But I was working all day and it was really interesting work.



GRAMMAR

used to

I can use used to to refer to past habits and routines.



1 SPEAKING Look at the photos. In what way are these things different today? Discuss with a partner.

fashion friends music relationships school technology travel

- 2 1.40 Listen to a dialogue between Chris and his granddad. Are the sentences about Chris's granddad true (T) or false (F)?
 - 1 He **used to phone** people from the phone in the sitting room.
 - **2** He used to message people.
 - **3** He didn't use to live near his friends.
 - 4 His mum didn't use to like the loud music in his bedroom.
 - **5** His parents **bought** him a camera for his sixteenth birthday.
 - 6 He used to have five or six good friends.
- 3 Read the GRAMMAR FOCUS. Complete the examples using the past forms in blue in Exercise 2.

GRAMMAR FOCUS

used to

• You use **used to + verb** to talk about past states that are no longer true.

He¹_____ have five or six good friends.

 You use used to + verb to talk about regular past actions that don't happen anymore.

He ²_____ phone people from the phone in the sitting room.

You don't use *used to* + verb to talk about a past action that only happened once. You use the Past Simple.
 His parents ³ _____ him a camera for his sixteenth birthday. (NOT used to buy)

used to + verb

- + I used to work ...
- He didn't use to work ...
- ? Did they use to work ...? Yes, they did./No they didn't.



- 4 Complete the sentences with the correct form of the verbs in brackets. Use *used* to + verb or the Present Simple.
 - 1 People <u>used to read</u> (read) maps but now they <u>use</u> (use) GPS.
 - 2 People _____ (not/use) their cars much but now they ______ (drive) everywhere.
 - 3 People _____ (update) their online profiles now, but they _____ (write) letters.

4 Children _____ (play) inside now but in

- the past they _____ (play) outside.
- 5 Teachers _____ (suggest) books but now
 - they _____ (give out) website addresses. 6 Families _____ (watch) the TV together
 - but now they ______ (watch) it individually.
- 7 Students _____ (use) Google now, but they _____ (look up) things in encyclopedias.
- 8 Parents (not/worry) so much but now they (give) children less freedom.
- 5 SPEAKING Discuss the statements in Exercise 4. Do you think they are all true?
- 6 Replace the Past Simple with *used to* + verb if possible. Which sentences are true for you?
 - When I was at primary school, ...
 - 1 my parents took me to school every day.
 - **2** I didn't go online much.
 - 3 I went on a school trip to the Science Museum.
 - 4 I didn't like school dinners.
 - **5** my parents bought me my first mobile phone.
 - 6 I wanted to be an astronaut.
- 7 Make questions for the sentences in Exercise 6. Then ask and answer as in the example.
 - A: Did your parents use to take you to school? B: Yes, they did.

Grammar page 136





Linkers and time expressions

I can use a range of common linking words and time expressions.

(1) 1.41 SPEAKING Look at the photo. Discuss what you think the film is about. Use the ideas in the box. Then listen and check.

civil rights for black women computers mathematicians American space projects robots

- 2 1.41 Listen again and choose the correct option.
 - 1 The three women worked for NASA as *mathematicians / astronauts* during the 1950s and 60s.
 - 2 While they were working for NASA, they earned *more / less* than their white colleagues.
 - 3 Segregation between blacks and whites continued until the *mid- / late* 1960s.
 - 4 When the film came out, Katherine Johnson 78 / 98 years old at the time met the actress who played her.
 - 5 As soon as Johnson arrived at the 2016 / 2017 Oscars ceremony, everyone stood up and cheered.
- 3 Read the LANGUAGE FOCUS. Complete the information with the words in blue in Exercise 2.

LANGUAGE FOCUS

Linkers and time expressions

 You use conjunctions when/while to link things that happen at the same time. [conjunction + subject + verb]
 ¹While they were working for NASA, they earned less than their white colleagues

You use conjunctions after/²_____/before/when to link things that happen in an order.
 [conjunction + subject + verb]
 ³______ the film came out, Johnson met the actress who played her.

 You use prepositions *during/for/until (till)/by* as follows: *during* + noun phrase to say when something happens – 4 ______ the 1950s and 60s

until (till) + noun phrase to talk about a state that continues up to a point in time –

Segregation continued ⁵_____ the mid-1960s.

by + noun phrase to talk about an action that happens at or before a point in time –

Segregation stopped by the late 1960s.

4 Choose the correct option. Then change the information to make the sentences true for you.

- 1 I haven't been to the cinema (for) / during several weeks.
- 2 I saw Hidden Figures during / while I was on holiday.
- 3 I learnt a lot about American Civil Rights *during / while* the film.
- 4 I didn't know that segregation in the USA continued *until / by* 1964.
- 5 | ate some popcorn when / after | was watching the film.
- 6 As soon as / While the film finished, I went home.



5 (1) 1.42 USE OF ENGLISH Read the text. Choose the correct answer, A, B or C. Then listen and check.



KATHERINE JOHNSON

¹<u>When</u> Katherine Johnson was a child, she was a maths genius. ²____ she was only 14, she went to university to study Maths. ³___ she was studying at university, her Maths professor told her she should become a research mathematician. ⁴___ she graduated from university she became a teacher. ⁵___ the 1940s she got married and had children.

She didn't become a research mathematician ⁶____ she was 35. She got a job as a 'computer' with NASA. Katherine was different from other 'computers' – ⁷___ she was at NASA, she asked a lot of questions. ⁸___ Katherine Johnson started work at NASA, only men went to important meetings. She changed that!

1 A When	B Before	C During
2 A While	B When	C Until
3 A During	B While	C After
4 A Before	B While	C As soon as
5 A Till	B During	C While
6 A until	B by	C during
7 A during	B while	C after
8 A Before	B During	C As soon as

6 Complete the sentences. Write five true sentences and one false.

- 1 While I was going home yesterday, I ...
- 2 As soon as I got home, I ...
- **3** During the evening I ...
- 4 I didn't go to bed until ...
- **5** I was fast asleep by ...
- 7 SPEAKING Read your sentences in Exercise 6 to your partner for him/her to guess which sentence is false.

Use of English page 137

WRITING

A story

I can write a story with a simple linear sequence.

SPEAKING Tell your partner about a surprising or interesting thing that happened to you on holiday. Say:

1 where and when it happened.

2 how old you were.

3 what you were doing when it happened.

- 2 Read Paul's story and choose the best title, A, B or C. A The Holiday of a Lifetime
 - B Surprise by the Sea
 - **C** Beautiful Cornwall

I was twelve years old and my parents and I were on holiday in Cornwall. They are both biologists and we all love nature. One morning, Dad suggested walking along the beach to a distant village.

It was a lovely day for a walk, but after an hour. I noticed some dark clouds. I asked my parents if they thought we should go back. They smiled at each other, and then Mum said we were nearly there.

What was going on? Mum usually made me go indoors during storms. What's more, we were still far away from the village. <u>Anyway</u>, suddenly, there was loud thunder and it started to rain. "Come on, quick!" my father said. "We're almost there."

I noticed a cottage not far away. Dad started running towards it <u>so</u> we ran after him. When we got there, he seemed really excited, which <u>I must admit</u> was a bit strange. <u>Unfortunately</u>, there was no one home. 'That's unlucky,' said Dad 'but wait...' <u>Suddenly</u>, he took a key from his pocket, unlocked the door and pushed it open. He was silent for a moment. Then with a smile he said: "Come in. And welcome home!" <u>What a surprise</u>!

<u>In fact</u>, thinking back to my parents' behaviour <u>during</u> the first part of our holiday, I knew something strange was going on – but I had no idea what! Our new holiday home was the perfect place for nature lovers. It was awesome!

We still live in London, but our cottage in Cornwall is our dream house, and I will never forget the day I first saw it.

- 3 Read the story again and put events in the correct order.
 - a Nobody answered the door.
 - ${\bf b}\,$ The weather changed.
 - **c** The family went into their new holiday home.
 - ${\bf d}\,$ The family went to Cornwall on holiday.
 - e Paul saw a cottage in the distance.
 - **f** The family went for a walk along the coast.
- 4 Read the WRITING FOCUS. Complete the examples with the words in purple in the story.

WRITING FOCUS

A story

- Set the scene:
 - I¹was twelve years old when ...
 - It was late in the evening when ...
 - It ²_____ a walk.
 - I was in the classroom when ...
- Use questions, short dramatic sentences and occasional exclamation marks to show surprise or excitement:

What was ³_____ on?

- What a 4_____ !
- What a nightmare! It was ⁵
- We were in trouble.
- Use adverbs to add interest:
- All of a sudden, / 6_____, / 7_____, / Luckily, ... really (good)
-incredibly (beautiful)
- ... completely (lost)
- Use a summarising statement to begin or end your story:
- I'll never forget ⁸_____ I first saw ... /
- the time I decided to ... / when I first went ... / ... was an event I'll never forget.



- 5 Read the extracts from different stories. Find and correct three mistakes in each.
- 1 I was 14 years old then I first became interested in archaeology. I was looking for fossils one Sunday afternoon when I made the discovery that made me famous. I am never forget the feeling of seeing it there in the ground for the first time. It was awesome?
- 2 We were in the Chemistry lab at school when we noticed the strange smell. All of a suddenly, there was a loud bang. What is going on? Our teacher walked in from a lab next to ours. Her hair was a mess and her glasses were black with smoke. Lucky, she was more shocked than hurt. 'What happened, Miss?' asked one of my classmates.
- 3 The school trip to the science museum is a day I'll never remember. We had a great time at the museum. When we were going back to meet the others at the bus to go home, my friend and I got stuck in a lift. The lights went off and the alarm didn't work. We were on trouble. What we were going to do?
- 6 SPEAKING Choose one of the extracts in Exercise 5 and say what you think happened next.
- 7 Complete the LANGUAGE FOCUS with the underlined linkers in the story.

LANGUAGE FOCUS

Informal linkers

In narrative stories we often use:

- I have to say or ¹<u>I must admit</u> to emphasise the next piece of information.
- Anyhow or ²______ to change the subject or move the story on.
- Actually or ³______ to show that the next piece of information is surprising.
- And, but, because, ⁴______ to join parts of sentences.
- Then, when, while, ⁵______ to make the order of events clear.

8 Read the story and choose the correct option.

'This is a bad start', I thought and looked again at the directions on my phone. I was trying to find the city hospital for my first day of work experience in the IT department there. Unfortunately, I was very late and totally lost.

¹I have to say/Anyhow it was my fault. I forgot to check the route the day before. ²During/Anyway, my phone said to turn right, but ³in fact/I have to say there was no right turn, just a wall! What was I going to do? I was already ten minutes late. 'Go back to the main road and try again,' I thought 'and go quickly!' I hurried along as fast as I could. I was turning a corner ⁴then/when suddenly there was a bang ⁵and/so everything went black.

⁶When/I must admit I opened my eyes, there were four worried faces looking down at me. 'Are you alright?' 'Yes, I think so', I said. My head hurt. ⁷Then/While I remembered the bang and the darkness. 'What happened?'

'Well, you were hurrying along looking at your phone, and you bumped into that tree. We thought you should go to hospital so we've called an ambulance.'

Luckily, the doctor said I was fine. ⁸Anyway/I must admit that was not how I expected to arrive at the hospital for my first day of work experience!

SHOW WHAT YOU'VE LEARNT

Do the writing task. Use the ideas in the WRITING FOCUS and the LANGUAGE FOCUS to help you.

Your teacher has asked you to write a story ending with: *I was so relieved. It was finally* over!

Use the questions below to help you.

- Where were you?
- When was it?
- Who was with you?
- What happened?
- What could you see and hear?
- How did you feel?
- What did you do next?
- How did it end?

Remember to:

- give your story a title.
- make your story interesting for the reader.
- give your story a strong ending.

It was a chilly autumn morning ...

SPEAKING

Telling a story

I can tell a story and show interest in someone's story.

SPEAKING Look at the photo of Tom. Then ask and answer the questions.

1 Where was Tom? 2 What was he doing? 3 What was the problem?

2 (1) 1.43) Read and listen to the story. Compare your ideas in Exercise 1.



Lisa: Hi Tom. How was your holiday in Australia? Tom: It was really good, thanks ... except for the day I nearly died.

Lisa: What happened?

- Tom: I was doing some climbing. <u>At first</u> the sun was shining and I was enjoying myself. But <u>all of a sudden</u> the weather changed. It became really foggy and I couldn't see the path.
- Lisa: Oh dear, that sounds frightening.
- Tom: I was pretty worried. I continued for a while, but finally I realised I was lost.
- Lisa: What did you do?
- Tom: Fortunately, I had my phone with me so I called my father – 9,000 miles away in England! He called the Australian police and told them where I was. Then they called me. <u>Unfortunately</u>, my battery went dead after five seconds. It was dark and cold. I sat under a rock, put on my torch and waited.
- Lisa: Oh no, what a nightmare!
- Tom: <u>Eventually</u>, they found me. I was so relieved. I used to go climbing on my own all the time, but <u>I'll never do it again</u>.

3 There are often five stages in a story. Match stages 1–5 in Tom's story with headings a–e below.

d problem

e main events

- a background
- **b** final comment
- **c** introduction

4 Read the SPEAKING FOCUS. Complete the examples with the underlined phrases in the story in Exercise 2.

SPEAKING FOCUS

Telling a story

Use the right tenses

- Past Continuous for the 'background': The sun ¹was shining and I was enjoying myself.
- Past Simple for the 'problem' and the 'main events': The weather changed. I couldn't see the path.

Use linkers

- Beginning: To start with/At ²_
- Middle: Suddenly/All of a ³_____/Luckily/ Fortunately/⁴_____
- End: In the end/Finally/⁵_____

Say how you felt I was excited/frightened/surprised/shocked/worried, etc.

Make a 'final comment'

It was the best/worst day of my life! I'll never forget the look on his face! I'll never ⁶_____.

Listening to a story

Neutral response Really?/Oh dear./Oh no.

Strong response

That sounds amazing/funny/7______ What a great story/8a ______ !

Respond with questions

What happened? What did you do?

5 Follow the instructions to prepare your story.

1 Choose a topic from the box or one of your own ideas.

a dangerous situation a mistake some good or bad news some good or bad luck a nice surprise something that happened on holiday a problem with technology

- 2 Think about what you are going to say and make notes under the headings for the five stages of a story in Exercise 3.
- 6 SPEAKING Follow the instructions below to practise telling your stories. Then act out your dialogue to the class.

Student A: Use your notes in Exercise 5 to tell the story.

Student B: Use the SPEAKING FOCUS to respond to what Student A says.

ROLE-PLAY Telling a story

(6 10) Watch the video and practise. Then role-play your dialogue.

UNIT 2

Science and technology

Word list

2.1 Vocabulary (4) 4.9

astronomer /əˈstrɒnəmə/ astronomy /ə'stronəmi/ biologist /bai'plədʒist/ biology /bai'plədʒi/ broadband /'broidbænd/ camera /'kæmərə/ chemist /'kemist/ **chemistry** /'keməstri/ collect specimens /kə,lekt 'spesəmənz/ computer science /kəm'pjuttə .sarəns/ computer scientist /kəm,pjuːtə sarontist/ desktop computer / desktop kəm'pjuttə/ develop a theory /di, veləp ə '0ıəri/ digital /'dɪdʒətl/ discover /dis'kʌvə/ do an experiment / du an ik'sperimont/ do research / duː rɪ'sɜːtʃ/ download music / daun loud mjurzik gravity /'grævəti/ invent /In'vent/ keyboard /'kirbord/ laptop /'læptop/ laser printer /'leizə ,printə/ mathematician / mæθəmə'tı [ən/ mathematics / mæθə'mætiks/ mouse /maus/ observe /əb'zarv/ password /'passw3rd/ physicist /'fizəsist/ physics /'fiziks/ planet /'plænət/ science /'sarəns/ scientist /'salantist/ screen /skrim/ search engine /'sstf_endgan/ smartphone /'smartfaun/ take measurements / terk 'megamants/ take notes / terk 'nouts/ text message /'tekst _mesid3/ update your profile /Ap,deit joi prəufail/ username /'iuzəneim/ visit a website / vizət ə 'websait/ web browser /'web ,brauzə/

2.2 Grammar 📣 4.10

arrive /ə'raıv/ burn yourself /'b3in jə,self/ carriage /'kæridʒ/ coast /kəʊst/ crash /kræʃ/ direct sunlight /dai'rekt 'sAnlait/ e-book /'i: bok/ E ink /'ir Ink/ electronic / elik'tronik/ e-reader /'ix ,rixdə/ get dark / get 'dark/ get home / get 'houm/ hill /hɪl/ imagine /I'mæd3In/ reach towards / rist f tə'wəsdz/ reply /ri'plai/

researcher /ri's3:tʃə/ rough /rʌf/ servant /'s3:vənt/ silver cross /ˌsɪlvə 'krɒs/ text sb /'tekst ˌsʌmbɒdi/ thick forest /ˌθɪk 'fɒrəst/ vision /'vɪʒən/ wake up /ˌweɪk 'ʌp/

2.3 Listening (4) 4.11

affect /ə'fekt/ analyse data/evidence / molaiz 'deitə/ 'evədəns/ analysis /ə'næləsəs/ ancestor /'ænsəstə/ archaeologist / arki'plədzist/ archaeology / aːki'ɒlədʒi/ collect data/evidence /kə,lekt 'deitə / 'evədəns/ conservation / konsə'vei∫ən/ conservationist / konsə'vei∫ənist/ discovery /dis'kavəri/ environment /In'vairənmənt/ evolution / irvə'lur∫ən/ exploration / eksplə'reijən/ explore /ik'sploi/ find a solution / faind ə sə'lur∫ən/ geologist /dʒi'ɒlədʒist/ geology /dzi'olədzi/ global warming / gləubəl 'wərmiŋ/ linguist /'lıŋgwist/ linguistics /hŋˈgwistiks/ marine biologist /mə,rim baı'plədʒəst/ marine biology /mə,ri:n bar'plədʒi/ observation / pbzə'verjan/ protect the environment /pra,tekt ði in'vairənmənt/ protection /prə'tek [ən/ psychologist /sai'kpləd3ist/ psychology /sai'kplədzi/ publish a research paper/evidence /pAblif a ri'ssitf peipa/'evadans/ solution /səˈluː∫ən/ solve /splv/ spend hours / spend 'auəz/ technology /tek'nolədʒi/

2.4 Reading (4) 4.12

above zero /ə,bAV 'ZIƏRƏU/ airstrip /'eəstrıp/ average temperature / ævərɪdʒ 'temprət∫ə/ below zero /bɪˌləʊ 'zɪərəʊ/ boiling /'boilin/ canteen /kæn'tim/ chilly /'t∫ıli/ cold /kəʊld/ degree centigrade /di.grix 'sentəgreid/ fall /forl/ freezing /'frizziŋ/ hot /hpt/ jigsaw /'dʒɪgsəː/ layer /'leiə/ own (adj) /əʊn/ permanent /'psimanant/

plus/minus 25 degrees /'plʌs/'maɪnəs 'twenti 'faɪv di 'griɪz/ reach home/the South Pole /,riɪt∫ 'həʊm/ðə sauθ 'pəʊl/ recorded /ri 'kɔ:dɪd/ remains /rɪ'meɪnz/ return to /rɪ'tɜ:n tə/ rise /raɪz/ run a business/research station /,rʌn ə 'biznəs/rɪ'sɜ:t∫ 'steɪʃən/ save /seɪv/ the dark /ðə dɑːk/ warm /wə:m/

2.5 Grammar (4)) 4.13

astronaut /'æstrənɔ:t/ give out /ˌgɪv 'aʊt/ GPS /ˌdʒiː piː 'es/ mobile phone /ˌməʊbaɪl 'fəʊn/ inside /ɪn'saɪd/ outside /aʊt'saɪd/

2.6 Use of English (1) 4.14

cheer /tʃiə/ civil rights /,sıvəl 'raits/ fast asleep /,fɑist ə'sliip/ graduate from /'grædʒueit frəm/ look up /,lok 'ʌp/ space /speis/ stand up /,stænd 'ʌp/

2.7 Writing 📣 4.15

distant /'dɪstənt/ loud thunder /laʊd 'θʌndə/ fossils /'fɒsəlz/ get stuck /get stʌk/ lift /lɪft/ directions /daɪ'rekʃənz/ route /ruːt/ turn a corner /tɜːn ə 'kɔːnə/

2.8 Speaking (4)) 4.16

all of a sudden /,oil əv ə 'sʌdn/ frightened /'fraitnd/ go dead /,gəʊ 'ded/ nightmare /'naitmeə/ put on /,put 'bn/ shocked /[pkt/ surprised /sə'praizd/ torch /toitʃ/

FOCUS REVIEW 2

VOCABULARY AND GRAMMAR

1 Complete the sentences with the correct form of the verbs in the box. There is one extra verb.

collect develop discover do invent observe take

- 1 Edwin Hubble (1889–1953), an American astronomer, ______ galaxies through a telescope.
- Last month the scientists ______ specimens of some sea spiders from Antarctica.
- 3 Make sure you _____ notes when we are at the museum.
- 4 Do you know who ______ the electric guitar?
- 5 This month two teams of archaeology students research in South Africa.
- 6 Linguists and psychologists are cooperating to ______a new theory of language learning.
- 2 Complete the sentences with the correct form of the words in capitals.
 - 1 Mr Marco works as a ______at the University of Alaska. PHYSICS
 - 2 We all tried to find the best ______ to the problem. SOLVE
 - 3 I want to study ______ at university. CHEMIST
 - 4 A _____ is someone who works to protect plants and animals. CONSERVE
 - 5 Take _____ of your desk before you buy a new computer screen. MEASURE
 - 6 The cost of space _____ is very high. EXPLORE

3 Use the prompts to write sentences.

- 1 My computer / crash / while / I / download / a song.
- 2 Tom / lose / his smartphone / when / he / run / in the park.
- **3** The first international Internet chat / take place / in February 1989.
- 4 It / be / so hot yesterday. The temperature / rise / to 38 degrees Celsius.
- 5 What / you / do / this time last year?
- 6 I / wait / for the photos from Sandra / last night / but / she / not / send / me any.

4 Choose the correct option.

- 1 Broadband Internet *didn't use to be / weren't* so popular in the 1980s.
- **2** Did your grandparents *use to buy / buy* a black and white television in the 1960s?
- 3 We did / used to do a lot of exercises last weekend.
- 4 My brother used to spend / was spending a few hours a day online.
- 5 Last winter the temperature used to fall / fell to minus 28 degrees Celsius.
- 6 Did they use to use / Did they use GPS when they were climbing in the Alps?

USE OF ENGLISH

- 5 Choose the answer, A, B or C, that is closest in meaning to the underlined words.
 - 1 NASA <u>is running</u> a project on using 3D printers to make food in space.
 - A is analysing B is organising
 - **C** is planning
 - 2 When Anton <u>was a student</u>, he applied for his first job.
 - A studied B was studying
 - C used to study
 - 3 Lack of water is <u>a permanent problem</u> in this country.A a problem that is always there
 - B a problem that is sometimes there
 - C a new problem
 - 4 X: When I was a child, I was in a serious car accident and I spent a month in hospital.
 - Y: What a nightmare!
 - A What a great story!
 - **B** That sounds frightening!
 - C Really? That's cool!
 - 5 My sister got lost in the forest, but, <u>luckily</u>, she managed to phone for help.
 - A suddenly
 - B eventually
 - C fortunately
 - 6 We analysed the data <u>while we were talking online</u>.A before the online talk
 - **B** after the online talk
 - C during the online talk

Choose the correct answer, A, B or C, to complete both sentences.

- 1 She____for her bag and took out the phone. We____home late in the afternoon.
 - A asked
 - B arrived
 - C reached
- 2 They haven't published their research ____ yet. How much ____ do we need to print the documents?
 - A paper
 - B report
 - **C** ink
- 3 The radio has warned of _____ temperatures today. Cook the pasta in ____ water for about 10 minutes.
 - A freezing
 - B boiling
 - C high
- 4 I can't believe you've bought a desktop _____I To be a ____ scientist you have to be good at maths.
 - A rocket
 - B computer
 - C space
- 5 As ____ as they discovered the cave, they started exploring it.

They reached the top too ____ and spent hours waiting for the sunrise.

- A soon
- B early
- C fast

READING

7 Read three texts about science and technology. Choose the correct answer, A, B or C.

Underwater forest

Several years ago, scuba diver Chas Broughton discovered an underwater forest of massive ancient cypress trees. Located twenty kilometres from the coast of Alabama, in the Gulf of Mexico, it is home for thousands of sea animals. Chas told a local journalist about the discovery, but they kept it secret until 2004, when Hurricane Ivan uncovered some of the trees. Then scientists started exploring the area.

They have suggested that the forest is more than 50,000 years old. In the past, the ocean level in the area was 125 metres lower than today, but when it rose, the water swallowed the trees up. The forest is so unique that conservationists are now working to make it a marine protected area.

1 The scientists

A found out about the discovery from a local journalist.B started visiting the area after the 2004 hurricane.C are trying to protect the forest.

Your ideas in 3-D

Are you interested in 3-D printing but don't want to buy another expensive gadget?

Then this offer is for you! Our 3-D printing service will help you produce a figure from your favourite video game, parts for a robot you are building in your basement, beautiful jewellery or decorations for your home. Just choose a design from our catalogue or create your own, decide what material, size and colour you want and send your project to us.

We will print the object and send it to you in no time! For more information visit our website at: www.weprint3d.com

- 2 The advertisement is addressed to people who A want to buy a 3-D printer.
 - **B** are professional designers.
 - C want to use 3-D printing technology.

Last week I took part in an unusual survey. A psychologist invited forty-four families and asked us different questions about eating habits now and in the past. She wanted to find out why fathers give children less healthy food than mothers. Strange, isn't it? But it's true in my family.

When my mum isn't at home for dinner, Dad orders a pizza. Mum doesn't accept unhealthy food because she feels responsible for what we eat. Dad cares more about my education or hobbies.

According to the survey, in most families the situation was and is similar. Teenagers observe their parents and learn how to behave in the future. My parents used to observe their parents and now I am observing them.

- 3 The survey the writer took part in shows that
 - A mothers and fathers look after families in different ways.
 - B fathers don't care about families as much as mothers.
 - C teenagers would like to change eating habits in their families.

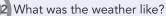
SPEAKING

- 8 In pairs, complete the questions with one word in each gap. The first letters are given. Then ask and answer the questions.
 - 1 W_____ do you use the Internet for?
 - 2 Do you use s_____ media? Why?/Why not?
 - 3 What i_____ do you find the most useful? Why?
 - 4 What were you doing y_____ at 8 p.m.?



- 9 In pairs, write down five words to describe the photo.
- 10 Imagine you are one of the people in the photo. Answer the questions.





3 Who were you with?

- 4 What were you doing? What happened?
- 5 How did you feel about it in the end?
- 11 When was the last time you got lost? What happened? Discuss with a partner.

WRITING

12 Read the writing task and write the story.

You agreed to write a story for the *Me and Technology* section of your school newspaper. The title of your story is: *The day technology saved me*. Remember to:

- explain when and where the situation happened.
- describe the events and show their sequence using the correct past tenses.
- make the story interesting for the reader.
- give your story an interesting ending.

Science and technology



VOCABULARY

Online • phones and computers word building
 collocations

SHOW WHAT YOU KNOW

- 1 Complete the sentences with the correct form of the verbs from the box.
 - download follow go post update visit

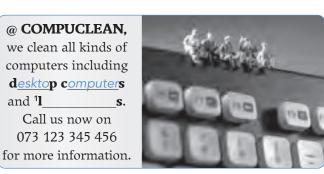
How do I <u>post</u> this photograph of us on social media?

- 1 I don't understand why so many people celebrities on Twitter.
- 2 Akito ______ online the moment she wakes up to check her social media messages.
- 3 I've never ______ this website before. It has some excellent information on it!
- __ your social media 4 It's very important to _____ profile. Then everybody has the latest information about you.
- 5 Dean is the only person I know that still buys CDs. Most people music on computers now.

WORD STORE 2A | Phones and computers

and ¹

2 Complete the texts with compound nouns. The first and last letters are given.



howitworks.com - Internet searches To use the Internet you need to have a ⁵w____b b____r. Then, you can use the touch screen on your phone or the **6 k d** on your computer to put a word or phrase into a ⁷s____h e____e such as Google. If you have ⁸b_____d, the information you are trying to find appears very quickly.

REMEMBER THIS

Log on and log in both mean start using a computer system or website (you often have to enter a username and password to do this, but not always). Their antonyms are log off and log out.

REMEMBER BETTER

When you learn phrasal verbs, check in the dictionary or online and find the antonym. We often (but not always) we use the opposite preposition, e.g. switch on \neq switch off.

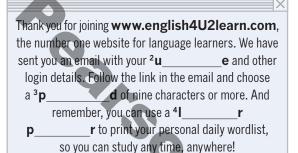
A Write the opposites. Use a dictionary if necessary.

- scroll up ≠ <u>scroll down</u>
- 1 turn up (the volume) ≠ _____
- 2 turn on ≠ _____
- 3 log on ≠
- B Complete the sentences with phrasal verbs from Exercise A.

The information you need is at the bottom of the webpage. You need to scroll down.

- 1 I can't study with that loud music playing. Please will you the volume.
- 2 Use your username and password to to the website.

_____ the TV before you go to bed.



our comments on the topic of teenage communication

will328 says:

Most young people do not use their phones for speaking to people. We either look for information on the Internet or we send **°t t m s** to family and friends.

WORD STORE 2B | Word building

3 Complete the sentences with the correct form of the words in capitals.



Charles Darwin, the world famous <u>biologist</u>, travelled to many exotic places such as the Galapagos Islands. **BIOLOGY**

- 1 Galileo Galilei, a famous , was the first person to see the rings of Saturn. He did this using his telescope in 1610. ASTRONOMY
- 2 The famous _____ Isaac Newton was born on Christmas Day 1642. And it's not true that an apple hit him on the head. **PHYSICS**
- 3 Larry Page, the _____ who helped start the company Google, is now worth \$44.5 billion. COMPUTER SCIENCE
- 4 The Nobel Prize is named after Alfred Nobel. He was a ______ and he is famous for making dynamite. CHEMISTRY
- 5 Euclid was a _____ and many people call him the Father of Geometry. He wrote one of the first textbooks for teaching Maths. **MATHEMATICS**

WORD STORE 2C | Collocations

4 Choose the correct verbs.

- 1 When you *do / make* an experiment, it's not always a success.
- 2 I prefer *collecting / taking* specimens. It's better than working in the laboratory.
- 3 Was it Marie Curie that *invented / discovered* radium?
- 4 The Scottish man, John Logie Baird, *invented / discovered* television in 1925.
- **5** Please *take / do* the important measurements this afternoon, Adam.
- **6** Famous scientists often *develop / observe* important theories.
- 7 Do you prefer *taking / doing* notes on a computer or a piece of paper?
- 8 Today we can *do / make* research on the Internet. In the past it wasn't so easy.
- **9** Scientists spend a lot of time just *observing / discovering* their experiments.

SHOW WHAT YOU'VE LEARNT

5 Choose the correct answers A–C.

- 1 I can't enter the website. Something is wrong. Am I using the correct ____ ?
 - A keyboard
 - B password
 - C text message
- 2 I've started using a new ____. I type in what I'm looking for on the Internet and it finds the websites I want really quickly.
 - A broadband
 - **B** username
 - ${\bf C}$ search engine
- 3 Sarah spends a lot of time ____ specimens in the countryside. She truly enjoys being a biologist.
 A collecting
 - B developing
 - **C** inventing
- 4 Kevin wants to be a computer <u>when he is older</u>. A science
 - B scientist
 - C biologist
- 5 Ben emailed the document to me. I made a copy of it on paper with the ____ for you.
 - A keyboard
 - B web browser
 - C laser printer

I'm busy at the moment. I'm ___ notes on this film about astronomy.

- A making
- B doing C taking
- 7 Most people have a ____ Internet connection now because it's fast.
 - A web browser
 - B broadband
 - C desktop
- 8 I need a new ____ for my desktop computer. The 'Enter' key doesn't work.
 - A keyboard
 - **B** laptop
 - C username
- 9 You must be very creative to _____ something completely new and useful for people to use
 - A invent
 - B discover
 - **C** observe
- 10 James' father is a(n) ____. He develops new drugs for people who are sick.
 - A astronomer
 - **B** chemist
 - C physicist

/10



GRAMMAR

Past Continuous and Past Simple

SHOW WHAT YOU KNOW

Complete the sentences with the Past Simple forms of the verbs in brackets.

- Graeme ^a<u>went</u> (go) online this morning and b______ (buy) tickets for the concert.
- 2 Simone and Kay ^a (be) very busy all day yesterday. They ^b (not/have) time for a break.
- 3 (Carly/be) at the Science club last week?
- (she/give) her presentation?
 a ______ (you/download) those games recently?
 b ______ (they/be) free?

2 ★ Complete the dialogue between a policeman and Steve with the Past Continuous forms of the verbs in brackets.

At the police station ...

- P: What <u>were you doing</u> (do) at six o'clock on the 23rd of October?
- S: Erm ... I don't remember. I think I was at home. Yes, I 1______ (watch) TV.
- P: Was anyone at home with you?
- S: No, nobody. It was just me. I²_____ (not/work) that day.
- P: I see. So nobody saw you at home at 6 p.m. that day?
- S: Oh ... er ... yes of course. Silly me! My wife was there too. She ³_____ (make) dinner in the kitchen.
- P: And what about your children?
- S: Oh yeah, the kids! They 4_____ homework) upstairs in their bedrooms.
- P: And your mother-in-law?
- S: Oh yes, of course. Er ... She ⁵______ (stand) in the kitchen.
- **P:** I see. So, can you explain why we have pictures of you waiting in your car outside the bank at 6 p.m.?

3 ★ Complete the sentences with the Past Continuous forms of the verbs in brackets.

Alexander Graham Bell <u>was experimenting</u> (experiment) in his laboratory when he made the first successful telephone call.

- 1 _____ (Archimedes/have) a bath when he shouted 'Eureka!'?
- 2 Mark Zuckerberg _____ (study) at Harvard University when he created Facebook.
- 3 _____ (Isaac Newton/sit) under an apple tree when he thought of his theory of gravity?
- 4 Marie Curie _____ (not/live) in Poland when she won her first Nobel Prize in 1903.

4 $\star \star$ Choose the correct forms.

- Sorry, I ^ahad / was having a shower when you ^bcalled / were calling.
- 2 *Did Lola stand / Was Lola standing outside when it *started / was starting to rain?
- 3 When the car ^acrashed / was crashing into us, we ^bwaited / were waiting at the traffic lights.
- 4 Fortunately, we ^adidn't ski / weren't skiing when the bad weather ^bcame / was coming.

5 $\star \star \star$ Complete the story with the Past Simple or Past Continuous forms of the verbs in brackets.

What were you doing (you/do) the last time you 1________ (see) something truly amazing? Well, fisherman and journalist Al McGlashan 2________ (fish) with friends in his private boat when he 3________ (find) something very, very strange. At first the group of fishermen 4________ (not/know) what it was, but when they 5_______ (look) closely, they saw the body of a giant squid – almost 4 metres long! Al got out his video camera and then another amazing thing 6_______ (happen). He 7_______ (film) the squid when a large blue shark 8_______ (arrive) and began eating the dead squid for lunch!

Al ⁹_____ (tell) an Australian newspaper that in all his years of fishing he'd never seen anything like it.



SHOW WHAT YOU'VE LEARNT

6 Find and correct the mistakes.

He was clicking on an icon and nothing happened. <u>clicked</u>

- 1 Tom was downloading music when his computer was getting the virus.
- 2 Annabelle visited the zoo when she saw an elephant for the first time.
- 3 Grandma, were you watching television when Apollo 11 was landing on the moon?
- 4 They were waiting for the bus when it was starting to snow.
- 5 The girls were playing tennis when Helen was breaking her arm. _____
- 6 Was the computers working this morning when you arrived?

/6

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(do/

LISTENING LANGUAGE PRACTICE



Science and scientists

collocations

Read the extracts of interviews with two people and choose the correct answers.

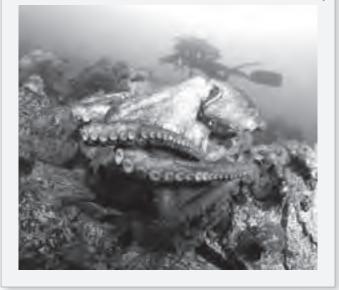
Speaker A is a child psychologist / a children's doctor.
 Speaker B is a deep sea diver / a marine biologist.

Complete the text with the correct verbs from the box. Change the form of the verb if necessary.

analyse collect do (x2) explore protect

Extract from Student's Book recording (1) 1.32

- A: I always want to understand why people do what they do – why do they behave that way? What are they thinking? I'm interested in how we develop from birth to the age of seven. [...] I love <u>doing</u> research and ¹_____ data. When I finish my studies, I want to work in a children's hospital. [...]
- B: The first time I went scuba diving, I saw a little fish swimming away into the distance, and at that moment I thought 'Oh yes, that's what I want to do I want to ²_____ oceans, ³____ evidence about global warming and help to ⁴_____ marine life.' I love my work I can't understand why everybody isn't ⁵_____ my job



3 Choose the word which does <u>not</u> form a collocation. Use a dictionary if necessary.

- 1 explore oceans / planets / people / countries
- 2 analyse chemistry / data / evidence / research
- 3 do experiments / solutions / research / business
- 4 collect evidence / signatures / information / science
- 5 protect marine life / the environment / wildlife / biology

4 Complete the sentences with collocations from Exercise 3.

Even simple things like not throwing rubbish in the sea help to protect <u>marine life</u>.

- I don't like beach holidays. I prefer to explore different ______ and to visit places where tourists don't usually go.
- 2 The police analysed the _____ but weren't able to solve the crime.
- 3 My dad is travelling for work again. His company is doing ______ with a Japanese car company.
- 4 Emma's got a summer job with a marketing company doing ______ in a shopping centre. She has to stop shoppers and ask them a few questions.
- 5 Our class is collecting ______ for a petition against scientific experiments on animals.
- 6 The government should not build a new road here. We need to protect _____ and the natural environment in this area.

VOCABULARY PRACTICE | Science and scientists

5 Look at the vocabulary in lesson 2.3 in the Student's Book. Choose a word or phrase from each pair in the box to complete the sentences.

> archaeology / an archaeologist conservation / a conservationist geology / a geologist <u>linguistics / a linguist</u> marine biology / a marine biologist psychology / a psychologist

Did you know that <u>a linguist</u> studies how languages work? You must be able to swim if you want to be

. You will probably work in the sea a lot of the time.

- 2 Haley has _____ that she meets. He helps her to talk about her feelings.
- 3 There's an interesting course on ______ in the local youth centre. Maybe I can do it and then help people learn more about saving the planet.
- 4 Rafaele wants to be because he's always liked looking for old things buried in the ground.

5 I don't think I'd like _____ you often examine rocks and stones and get your clothes and hands dirty all the time.

WORD STORE 2D | Collocations

- 6 Complete the sentences with the missing verb in the correct form. The first letters are given.
 - Allan **a**<u>nalysed</u> the data yesterday and sent me the results this morning.
 - 1 It's important to **c**_____ lots of data before making any hypothesis.
 - 2 Next week, Margaret will **p**_____ her first research paper in a science journal. She's very excited.
 - 3 Everybody is responsible for helping to **p**_____ the environment. So turn off the computer when you are not using it!
 - 4 Dr Brown often s_____ hours looking at test results before he finds a problem.

READING

All about passwords • antonyms • nouns and verbs • the temperature

1 Read the text quickly and choose the best title.

- 1 How to create a secure and
- easy-to-remember password
- 2 How to remember all your passwords
- 3 How to guess someone's password

1

We all know the <u>basic</u> rules for choosing good passwords and keeping them secret. Rule number one: use numbers, symbols and a good mix of letters – upper case (A, B, C) and lower case (a, b, c). Rule number two: use a <u>different</u> password for each of the devices you use or for each of the devices you use or for each website you visit. Rule number three: change your passwords regularly. Rule number four: never write your passwords down. These rules sound easy to follow, right?

2

Well, not really. The rules say that a secure password should look something like this: 'NOr@5%_fpO&47d1nk'. Do you think you can <u>remember</u> that? Don't forget you should have several different ones, you shouldn't write them down AND you have to change them every few weeks. Does this sound like an <u>impossible</u> task? Well, for most people, it is. So what do most of us do?

3

Recently, researchers had a chance to analyse secret information about passwords. They found that many of us totally ignore the experts' advice and choose simple, easy to remember and extremely insecure passwords. Data shows that one out of every ten people uses '1234' as the pin number for their bank cards, and that the passwords 'welcome', '123456', 'ninja' and of course 'password', are some of the most popular choices.

Even governments choose <u>terrible</u> passwords. It seems hard to believe, but in the 1980s, the American government actually used the 'secret code' '00000000' to unlock its nuclear missiles.

4

5

So how can we make our passwords secure and memorable*? Well, first, the length of your password is important. For a hacker with a computer that can make 1000 guesses per second, a lower case, 5-letter password like 'ftmps' takes only around 3hrs and 45 minutes to crack*. A similar password with 20 letters takes a little longer – around 6.5 thousand trillion centuries*!

Hackers are very good at guessing when we choose symbols and numbers instead of letters. For example, the password 'M@nch3st3r' seems like a good one, but the code is actually very simple – first letter = upper case, @ = a, 3 = E. It is easy for hackers to program their computers to look out for these kinds of codes. Because the length of the password is so important, a group of words written in lower case, e.g. 'help cheese monkey swimming' is much more secure than something like 'M@nch3st3r', and probably a bit easier to remember (think of a monkey – it is shouting for help and swimming towards some cheese!).

6



GLOSSARY

memorable (adj) – easy to remember **crack** a code or a password (v) – work it out or solve it **century** (n) – 100 years **fingerprint** (*n*) – a mark made by the pattern of the skin on the end of your fingers

2 Read the text again. Match headings A–H with paragraphs 1–6. There are two extra headings.

- A NuM83rs @nd sYmB0ls
- B How to become a hacker
- C No more passwords!
- **D** Passwords for beginners
- E Dangerous choices
- **F** How they did it in the US
- **G** How good is your memory?
- H Short = bad, long = good

Read the text again. For questions 1–6, choose the correct answer A–D.

- Which basic rule for passwords is <u>not</u> mentioned? A Use a mix of letters, numbers and symbols for passwords.
- B Use different passwords for different websites.
- C Never tell another person your password.
- D Change your passwords often.
- 2 The article says that most people
 - A don't know how to choose a secure password.
 - B use the same password for everything.
 - C don't follow experts' advice when they choose a password.
 - **D** forget passwords easily.
- 3 The most popular password is
 - A not mentioned.
 - B 'password.'
 - **C** '1234.'
 - **D** '00000000.'
- 4 In the 1980s, the US government
 - A had a secure password for unlocking its nuclear missiles.
 - **B** didn't have a password for unlocking its nuclear missiles.
 - C lost the password for unlocking its nuclear missiles.
 - D didn't have a secure password for unlocking its nuclear missiles.
- 5 The article says that hackers
 - A choose passwords with symbols and numbers.
 - **B** program their computers to look for symbols and numbers in passwords.
 - C choose lower case passwords.
 - **D** program their computers to look for long passwords.
- 6 According to the article, scientists in the US recently designed
 - A fingerprint readers for phones.
 - **B** a prototype keyboard.
 - C something people can wear to identify them.
 - **D** a touch screen laptop.

4 Find the opposites underlined in the text.

- fantastic ≠ <u>terrible</u> **3** forget
- 1 advanced ≠ _____
 4 possible ≠ _____

 2 similar ≠ _____
 5 complicated ≠ _____

REMEMBER BETTER

Many words in English have opposites, e.g. $start \neq finish$, $easy \neq difficult$, $man \neq woman$. These words are called antonyms. When you learn antonyms, use them in personal sentences to help you remember.

In your notebook, write personal sentences with the antonyms from Exercise 4.

The weather was terrible at the weekend, but we saw a fantastic film on Saturday.

VOCABULARY PRACTICE Nouns and verbs

5 Look at the vocabulary in lesson 2.4 in the Student's Book. Complete the sentences with the missing verbs or nouns. The first and last letters are given.

My grandmother always has a **j**igsa</u>**w** on her living room table. I like to help her when I visit, but I often put the pieces in the wrong place.

- 1 You'll need to put on another I_____r of clothing. It's really cold outside today.
- 2 My father never takes food to work because he eats at the company's **c_____n** every day.
- 3 How long will it take to **r_____h** the top of the hill? I'm already really tired.
- 4 Annie wants to **r_____n** her own computer games shop when she finishes school.
- 5 In many towns here you can still see the **r____s** of the old city walls made from large stones.
- 6 We can't land on the island. There's no **a____p** there.

WORD STORE 2E | The temperature

Complete the telephone conversation between Warmomatic and a customer with the words from the box. There are two extra words.

above below boiling chilly cold degrees failing freezing rising

- In the year 2033 ...
- W: Good afternoon. This is Warmomatic. How can I help you?
- C: Hello? Warmomatic? Oh, thank goodness you've answered. HELP!
- W: What is the problem, madam?
- C: My computer-controlled heating system isn't working. My home is really <u>cold</u>! It is ¹_____ zero in every room in the house and the temperature is still
 ²_____ . It's minus ten now.
- W: OK madam, please try to calm down. I'll try to fix the problem from my desktop computer. Please call me again in 20 minutes.
- 20 minutes later ...
- W: Good afternoon. This is Warmomatic. How can I help you?
- C: It's me again! Now the house is too hot. In fact, it's 3______. It's plus 35 4______ centigrade and the temperature is 5______. Help me!
- W: Oh dear. There is one very easy solution, madam.
- C: Anything. Please. Tell me what to do.
- W: Open a window madam. It's ⁶_____ outside.



GRAMMAR

used to

SHOW WHAT YOU KNOW

Tick the sentences that describe routines. Choose the time expressions that show regularity.

- Alastair played computer games <u>every evening</u> before bed.
- 1 Karen bought a new laptop last weekend.
- 2 Patricia and Matt called each other every Friday night.
- 3 Dean always watched football on Saturday afternoons.
- 4 Mary dropped her mobile phone down the toilet.
- 2 ★ When they went to university, two friends, Carl and Owen, moved into a student flat together. Write sentences about them with used to or didn't use to and the verbs in brackets.
 - When they lived with their parents ... they <u>didn't use to eat</u> (eat) unhealthy food. Now they only eat kebabs and pizzas.
 - 1 they _____ (do) any cleaning at home. They still don't do much and their flat is a mess.
 - 2 their parents _____ (pay) the bills. Now they pay their own bills.
 - 3 Carl _____ (use) his dad's computer. Now he uses Owen's.
 - 4 Carl and Owen _____ (argue). Now they argue about the computer.
- 3 ★ ★ Write positive sentences (+), negative sentences (-) and questions (?) about mobile phones in 1983. Use the correct forms of *used to* from the box and the words above each line.

did didn't use to used to use to

mobile phones / have cameras (?) <u>Did mobile phones use to have cameras?</u>

- 1 mobile phones / cost a lot of money (+)
- 2 most normal people / own a mobile phone (--)
- 3 people / make fewer phone calls (+)
- 4 mobile phones / be bigger (?)
- 5 mobile phones / have touch screens (-)
- 6 mobile phones / send text messages (?)

4 ★ ★ ★ Tick the correct sentences. Sometimes both sentences are correct.

When I was in the Science club at school, ...

- a we met every Thursday at 4 p.m.b we used to meet every Thursday at 4 p.m.
- a we watched videos about great discoveries.b we used to watch videos about great discoveries.
- a one week, a physicist came to speak to us.b one week, a physicist used to come to speak to us.
- 4 a our group went on a trip to the Science Museum in London.
 - **b** our group used to go on a trip to the Science Museum in London.
- 5 a my friend Emma once gave a talk about the sun.b my friend Emma once used to give a talk about the sun.

SHOW WHAT YOU'VE LEARNT

- 5 Complete the dialogue between Jodie and her dad with the correct forms of *used to* and the verbs in brackets.
 - J: Dad, <u>did you use to own</u> (you/own) a smartphone when you were my age?
 - D: Did I what?

 $\mathbf{\sqrt{}}$

- J: 1_____ (you/use) a smartphone or a laptop when you were a teenager?
- D: What?! No I didn't. I was 14 in ... er ... wait a minute ... in 1981. We ²_____ (have) laptops back then.
- J: So, how ³_____ (check) your
- messages?
- J: I see. Wow ... Dad, what's a fax?
- D: Er ... well ... it was a bit like a photocopier. You
 <u>s</u> (write) your message on a piece of paper, then put it in the fax machine ...
- J: And then?
- D: Well, then you ⁶______ (dial) the number and wait. The machine er ... well ... it read the piece of paper and sent it to your friend.
- J: What, the piece of paper?
- D: What? No! Not the same piece of paper, Jodie just the message.
- J: I see. Wow.

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USE OF ENGLISH



Linkers and time expressions

1 \star Choose the correct words.

- 1 I read the biography of Martin Luther King *during / while* I was at home sick.
- 2 They didn't have smartphones *when I by* my father was a student.
 - As soon as / While we downloaded the song, we listened to it six times.
- 4 Userned a lot about web browsers *during / while* the weekend computer course.
- 5 It was minus ten every day last week *until / by* Friday.

2 ★ ★ Complete the second sentence so it has a similar meaning to the first. Use between two and five words, including the word in capitals.

You can take my laptop now but I need it on Wednesday. **BY** You can take my laptop now but return it <u>by</u> Wednesday, please.

1 The moment you get home, send me a text message. SOON

Send me a text message _ home.

2 Susie drove to Manchester and listened to the CD in the car. WHEN Susie listened to the CD

Manchester.

- 3 I was watching the film and began to feel cold. **DURING** I _______ the film.
- 4 We had something to eat and waited for the program to download. WHILE We had something to eat _____
 - downloading.
- 5 James did the experiment then showed me his notes. AFTER

James showed me ______ the experiment.

6 I read my book and waited for you to arrive. **UNTIL** I your arrival.

3 \star \star Choose the correct answers A–C.

A modern genius

Stephen Hawking was one of the most famous scientists in the world. He was born in Oxford in 1942 and lived there ¹___ the moment he moved to Cambridge to complete his PhD. ²__ this, however, people already knew that he was intelligent. He enjoyed Maths and Science at school very much. He found both subjects very easy, and it was ³__ he was studying there that his friends began to call him 'Einstein', for fun.

Stephen's first university was actually Oxford, where he studied Physics and Chemistry. ⁴_ his studies there, at the age of 21, he became very sick and had problems speaking and moving. ⁵_ he realised he was extremely ill, he decided to work harder. This was because he really wanted to finish his PhD ⁶_ he died.

Hawking finished his PhD when he was only 24. Later he wrote over 15 very popular science books. His doctors didn't expect him to live long. He died at the age of 76 – definitely too early, as many say.

1	A till	B by	C while
2	A After	B Before	C Until
3	A during	B while	C as soon as

- 4 ★ ★ Complete the sentences with one word in each gap. Use each word only once.
 - Dad: Jono, I don't want you to use my laptop <u>while</u> I'm washing the car. Wait until I finish, OK?

Jono: Yes, Dad. I promise.

- 1 Tess: Let's play a game _____ the flight to Madrid. Bill: Good idea. How about Scrabble?
- 2 Matt: I had to speak to my Physics teacher. Why didn't you wait _____ the end of our conversation?
 - Vic: I didn't know where you were or who you were with. Sorry.
- 3 AI: I decided to take a year off _____ I went to university to study Chemistry.
 Gina: Really? What did you do for a year?
- 4 Phil: I stopped downloading the game as _____ as I realised it was illegal software.
 - **Chris:** Good idea. Why don't we try a different game?
- 5 Ella: I need to finish this report _____ tomorrow morning. Can we meet in the afternoon?Jon: No problem. I'll send you a text message.
- 5 ★★ Complete the sentences with the words in brackets in the correct form. Do not change the order of the words. You may need to add words. Use no more than six words in each gap.

I listened to <u>the song before I knew</u> (the song / before / know) who sang it.

Adrian sent the text message __

_____ (while / drive), which is dangerous.

(not fall / asleep / during) the Biology class. I was just resting my eyes.

3 (after / 1) speak / Mandy) I decided not to lend her my smartphone.

- 4 The children all (go / sleep / by / midnight) on the school trip last week.
- 5 Yesterday, I called my mum _________(while / travel) home on the bus.

B While

B While

B by



С	As soon as
С	When
С	for

4 A During

6 A before

5 A Till



A story

1 Read the tips for writing a story. Tick the useful advice.

- 1 Set the scene by introducing who is in the story and where they are.
- 2 Include at least three main characters.
- Use different past tenses and structures in the story.
- 4 Use adjectives, adverbs and phrases to make the story interesting.
- 5 Use linkers and time expressions to show the order of events.
- 6 Try not to repeat the same words.
- 7 Write a happy ending.
- 8 Write four paragraphs.
- 2 Match suitable parts of useful phrases for writing a story. There are two extra endings.
 - It was four years
 - 1 What a
 - 2 I'll never
 - 3 It was a few
 - 4 It was a lovely day
 - 5 What
 - 6 Meeting my husband was
 - a years later when ...
 - **b** in trouble
 - c a surprise!
 - **d** nightmare!
 - e forget ...
 - f going on?
 - ${\boldsymbol{g}} \quad \text{for a walk} \dots$
 - h an event I'll never forget.
 - i ago when ...
- 3 Read the story *Hitting the Jackpot* below. Complete gaps 1–3 with a suitable phrase from Exercise 2.
- 4 Read the story again. Choose the correct words.

- 5 Read the story Lost in New York below. Cross out one incorrect word in each underlined sentence a-g. Then write the correct word.
- 6 Complete the story with the correct form of the verbs in brackets.





when

<u>I was 14 years old while I got lost in New York</u>. I <u>was</u> (be) on a school trip and on the last day we went to a museum before our flight home. We 1______ (travel) by city bus when I ²_____

(begin) to feel sleepy.

^a<u>All of the sudden</u>, someone ³_____ (start) shaking me. I was the only person left on the bus. ^b<u>What was going up</u>? I slowly realised I was lost. ^c<u>I have to saying I was scared</u>. <u>I</u>⁴_____ (not/have) any money and my phone was dying. ^d<u>I was by trouble.</u>

While I⁵_____ (think) what to do, I⁶_____ (see) a woman. She was wearing a pilot's uniform. Lucky, she helped me. ^fShe was incredible kind and told me how to get to the airport and even gave me ten dollars for the ticket.

When I finally ⁷_____ (get) on the plane, the pilot ⁸_____ (make) an announcement. I recognised her voice immediately. It was the woman from the bus. She ⁹_____ (invite) me to the front of the plane and ¹⁰_____ (explain) how everything worked. <u>*I'll always forget the day</u> <u>I travelled with the pilot</u>

<u>It was four years ago when</u> my luck started to change. I was walking home from work when a man rushed out of a newsagent's and jumped on a bus. *^aUnfortunately / Incredibly*, a small piece of paper fell from his pocket.

It was a lottery ticket. I put it in my bag and forgot all about it until a few weeks later when I found it again in my handbag. I checked the ticket. ¹______ It wasn't the winning ticket, but it won a small amount of money.

^b*Anyhow / I must admit* I thought about taking the money, but I decided to keep the ticket for good luck instead. ^c*Actually / While*, my luck did change after that.

²______ I met my husband, Paul. On our wedding day, he said he felt like the luckiest man alive. At that moment, I decided to tell him the story of my lottery ticket to show him I was lucky too. ^a*Then / Unfortunately* Paul started to laugh. ³______ the next thing he told me. He used to play the lottery and the numbers on the ticket were his lucky numbers. ^c*During / Suddenly* I knew who he was. It was Paul who dropped the ticket. I couldn't believe it! We weren't rich, but we were very happy ^f*anyway / luckily*.

* Hit the Jackpot - to be very successful or lucky

7 Read the task below. Then complete gaps 1–7 in the story with the phrases from the box. There is one extra phrase.

Your school is holding a competition for the best short story about a surprising event. Write a story. Include and develop these points:

- Give information to set the scene.
- Describe what happened on that day using different past tenses and structures.

Use different words and phrases to show the order of events and add interest.

Give your story a strong ending.

didn't use to care didn't use to smile used to have used to laugh used to see didn't use to take used to tell used to walk

An unexpected gift

I was 17 years old ^a*when / while* I moved to my village. Every day I ¹_____ the same way home from school and every day I ²_____ an old man. He ^bwas / were sitting quietly under the same tree. He always looked miserable and children ³_____ at him.

During the next few weeks I ^cstarted / was starting to say hello when I saw him under the tree and later we actually became good friends. I ⁴_____ him about the exams I was taking at school and he told me all about the job he ⁵______ as a conservationist. I ^dhave / must admit I ⁶______ about the environment, but thanks to him, I started to think about it more carefully.

Anyway, one day he wasn't there. And he wasn't there the next day. What ^ewas going / went on? I went to his house to look for him. Unfortunately, I found out he died the day before.

Then, a few weeks later when I ^fwasn't / was walking home from school, a young woman came and gave me a letter. It was from the old man's wife. He told her about our conversations and that he felt cheerful when he was talking to me. He decided that he ^gwas wanting / wanted to give me a gift.

He ^hgave / was giving me his special bracelet. He ⁷_____ it off. Now I do the same. The old man is a friend I'll never forget.

- 8 Read the story again. Choose the correct words a-h.
- 9 Look at the story in Exercise 7 again and find examples for some of the tips in Exercise 1.
 - Tip 3 3 examples of the Past Continuous:
 - **Tip 4** 2 adjectives to describe the old man:



- 1 phrase: ___
- Tip 5 4 linkers and time expressions showing the order of events: _____

SHOW WHAT YOU'VE LEARNT

- 10 You see a short story competition in your favourite magazine and decide to enter. Write a story with the title 'A day to remember'. Include and develop these points:
 - Give information to set the scene.
 - Describe what happened on that day using different tenses and structures.
 - Use different words and phrases to show the order of events and add interest.
 - Give your story a strong ending.



SHOW THAT YOU'VE CHECKED

Finished? Always check your writing. Can you tick √ everything on this list?

In my story:

- I have given information to set the scene, e.g. I was ten years old ..., It was a cold dark evening.
- I have used the Past Simple and Continuous, and perhaps used to to describe what happened, e.g. It started to rain as I was climbing the mountain.
- I have used different words and phrases to make my story interesting for the reader, e.g. What was going on? It was awesome!
- I have included adverbs to add interest, e.g. Suddenly, Luckily, incredibly.
- I have given my story a strong ending, e.g. I'll never forget when I first went ..., ... was an event I'll never forget.
- I have checked my spelling and punctuation.
- My text is neat and clear.



SPEAKING

Telling a story

1 Translate the phrases into your own language.

SPEAKING BANK

Telling a story

Use the right tenses

• Past Continuous is used to describe the background for the main events:

The sun was shining and I was enjoying myself.

• Past Simple is used to describe a problem and the main events.

AN OF

The weather changed. I couldn't see the path.

Use linkers

• Beginning: To start with/ At first

 Middle: Suddenly/All of a sudden/Luckily/Fortunately/ Unfortunately

• End: In the end/Eventually/ Finally

Say how you felt

I was excited/frightened/ relieved/surprised/shocked/ worried.

Make a 'final comment'

2 Complete the dialogue between Felix and Eva with the words from the box. There are two extra items.

except for excited happened Luckily Next time nightmare relieved shocked sounds Suddenly to start with

- F: We had a fantastic time on our summer holiday except for the day we went to the island.
- E: What ¹_____?
- F: We were travelling on a fast boat to visit a beautiful little island. The captain of the boat was going very fast and the waves were really big. _____ , the boat hit a giant wave.
- E: Oh no!
- F: There was a loud bang, the front window broke and lots and lots of water rushed in.
- E: Wow! That ³_____ really frightening.
- F: Yeah, well, we were ⁴_____ because it happened so quickly and the water hit us really hard. ⁵_____, nobody was seriously hurt.
- **E:** What did you do?
- F: Well, in the end we got to the island wet but very 6______ to be back on dry land.
 E: What a 7______ !
 F: 8______, we'll take the slow boat.

3 Complete each gap with one word.

Conversation 1: Alice and Cindy

- A: Yesterday I dreamt about meeting someone famous.
- C: Really? Who?
- A: Well, I was sitting in Manchester Airport, waiting for a flight to Warsaw. I remember, I was reading Little Women at the time. Suddenly, the lady next to me said 'Excuse me, 1_____ you enjoying
- that book?'
- C: Who was it?
- A: Well, Hooked at her and I thought, 'I know you', and then I realised it was Louisa May Alcott.
- C: What? The author of the book you ² reading? That's amazing! What did you say?
- A: Well, to start ³_____ I didn't know what to say, but fortunately, she was really friendly. ⁴_____ the end, we chatted for about ten minutes and I told her how much Nove her books.

Conversation 2: Andrew and Nancy

- A: I'm afraid ¹ horses.
- N: What? Why?
- A: Well, when I was twelve years old, my neighbour took me riding on her horse.
- N: ²_____ happened?
- A: It was my first time on a horse. ³____ first, everything was OK. We ⁴_____ going very slowly. My neighbour was holding the horse and I was sitting ⁵_____ its back. I was enjoying the ride, but then all 6_____ a sudden, there was a loud noise and the horse got scared and started running ... really fast!
- **N:** That sounds really frightening.
- A: It was. Luckily, I didn't fall off. I stay away from horses these days.

What did you do?



EXAM SPEAKING

1 In pairs, ask and answer the questions.

PART 1

Talk about personalities.

- 1 What is your best friend like?
- 2 Are you generous or mean? Why?
- 3 What qualities would you like to have? Why?
- **4** What is a good travelling companion like? Why?
- Do you think students should wear school uniforms?
- Why?/Why not?

PART 2

Talk about technology.

- 1 What do you mostly use your smartphone for? Why?
- 2 How do you feel in a place with no wifi? Why?
- **3** Would you prefer to give up your smartphone for a week or your laptop for a month? Why?
- 4 Have you ever had a problem with technology? What happened and how did you feel?
- 5 What is bad about living in the technological age?

2 Look at the pictures that show different types of scientists.

PART 1

Which of these jobs do you think is the most interesting? Discuss in pairs.





PART 2

In pairs, ask and answer the questions.

- 1 Have you ever watched the night sky like an astronomer?
- 2 Would you prefer to be a physicist, biologist or chemist? Why?
- 3 Do you like Mathematics? Why?/Why not?
- 4 What things can conservationists do to help our planet?
- 5 How do you think archaeologists feel when they find something important? Why?
- 6 Do you like studying Science? Why?/Why not?
- 7 Which of these jobs do you think is the best for you? Why?

3 Discuss this question together. 'Do you think scientists do a more important job than artists?' Why?/Why not?

For scientists:

Scientists ...

- find ways to make us feel better when we are sick.
- discover ways we can communicate with each other.
- help us to understand the world.
- find ways to help us travel.

For artists:

Artists ...

- create culture in society.
- help us to understand ourselves.
- create things that touch our emotions.
- bring colour to our world.

SELF-CHECK

VOCABULARY AND GRAMMAR

1 Complete the sentences with the words from the box in the correct form. There are two extra words.

jigsaw keyboard laser printer layer password search engine specimen username

- For more information, check online using a <u>search</u> engine.
- We need another two _____ of paint on the wall. I can still see the graffiti.
- 2 This new _____ is excellent. Look at the high quality of these pictures.
- 3 Luther is in the garden collecting ______ for our project on plants.
- 4 I can't find the last piece of the ______. Maybe it's under the sofa.
- 5 Did you know that the most used _____ in the world is '123456'?
- 2 Complete the sentences with the correct words. The first letters are given.

Sir Isaac Newton is probably the most famous **p***hysicist* in the world.

- 1 My favourite subject is **C**_____because I love working in the lab.
- 2 Patrick is very good with numbers. Does he want to study M_____ at university?

3 C_____s ____ make a lot of money. And with robots becoming more popular, they will earn more in the future.

- 4 I know I'm a plant biologist, but it's ten degrees c_____ outside. Let's stay in the lab today, OK?
- 5 In January 1971, experts observed temperatures of 80 degrees **b**_____ zero. Now THAT is cold!

3 Use the beginnings from the box to make words and complete the sentences.

archaeo- astro- conserva- geo- lingui- psycho-

Theodore Roosevelt was an early <u>conservationist</u>. He protected over 150 million acres of American forests for public use.

- 1 Many people say that John Aubrey (1626–1697) invented ______ when he studied Stonehenge in England.
- Philip Zimbardo is a contemporary American

 His 'prison experiment' showed how
 people behave in extreme conditions.
- 3 Did you know that _____ don't only work with materials on Earth? Some of them work with rocks from the moon and other planets.
- 4 In 1610, Galileo discovered the four largest moons of Jupiter using a telescope. For this reason, people call him the father of _______.
- 5 You don't have to speak a foreign language to be a good ______, but it probably helps.

4 Choose the correct verb forms.

Peter didn't go/ wasn't going to school on Thursday.

- Adam *did / was doing his homework when Simon
 bcalled / was calling.
- 2 We "slept / were sleeping when the postman "rang / was ringing the doorbell.
- 3 *Were they finding / Did they find the pharmacy before it *closed / was closing?
- 4 Chloe and Kyle ^adanced / were dancing together when the music ^bstopped / was stopping.
- 5 *Did Shelly wait / Was Shelly waiting at the station when the train *crashed / was crashing?

5 Find and correct the mistakes.

Did Auntie Kay used to cook a big meal on Sundays?

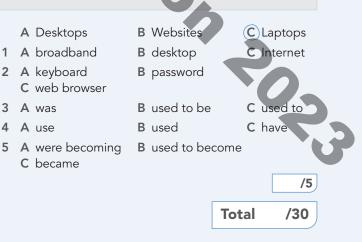
/5

/5

- 1 Beth used to go to Hong Kong for the first time in 2009.
- 2 Teenagers didn't used to have mobile phones in the 1980s.
- **3** Josh used to invent a popular video game.
- 4 Did use to be milk free at school when you were little?
- 5 When Grandpa was young, films used to were black and white.
- Choose the correct answers A–C.

Flat computers

are small, light personal computers for mobile use. They have most of the same components as '____ computers including a screen, speakers and a '___ to write/type with. In the 1970s, IBM 3___ the first company to make and sell these mobile computers. At first, laptops didn't 4___ to have batteries and the screens were black and white and very small. Later, in the 1990s, colour screens 5__ more popular. Nowadays, laptops are more popular than any other type of computer.



For Review Purpose Only

/5

/5

USE OF ENGLISH

7 Choose the correct answers A–C. Phil: My father _____ in a chemistry laboratory in Chicago last summer. Vic: Cool. Did you visit him when he was there? A used to work **B** were working C worked Amv: Why didn't you answer the phone? Tony: Sorry, I measurements of the room. Ah, OK. Amv: took B was taking C 'm taking 2 Fiona: When Dived in Florence I often went to the Leonardo da Vinci Museum. Cathy: Really? I didn't know _____ in Florence. Fiona: Yes. I lived there for six years. A you were living B you used to live C were you living 3 Dad: Sara! Sorry. I just wanted to check something. Sara: A Not to use my smartphone. **B** You don't use my smartphone. C Don't use my smartphone. 4 Pete: I had a great time _____ the visit to the Natural History Museum. Jim: I'm not surprised. It's amazing! A during **B** while C as soon as 5 Mark: Georgiana waited for me ____ I finished analysing data and then we had lunch. Connie: That was kind of her. A when B until /5 C soon Complete the sentences with the words in brackets 8 in the correct form. Do not change the order of the words. You may need to add words. Use no more than six words in each gap. The American physicist James Russell didn't invent the CD (not / invent / the CD) in 1964, but in 1965. 1 Professor Phillips was (plan / publish / research paper) when he suddenly became ill. 2 | (not / use / like) computer games but then I discovered Minecraft. 3 He sent me the file (soon / it / download) so that I could check it. 4 James (use / work) for Microsoft. He thinks it is a good company. 5 Where (you /

go) when I saw you in the tram last night?

9 Complete the text with the correct forms of the words from the box. There are two extra words.

collect	develop	do	follow
protect	remain	sit	walk

The Giants of Georgia

In 2008, a farmer <u>was walking</u> with his animals through the Caucasus Mountains in Georgia. He used ¹______ this often, but on this day he saw the unusual ²______ of an old stone structure. The farmer decided to explore the area. Inside the structure were two human skeletons. They ³_____ on chairs in front of a table. What was so interesting? The bodies were extremely large.

He contacted a team of archaeologists. On the way there, they saw some very large statues and what seemed to be a large stone road through the forest.

The scientists ⁴______ evidence (i.e. some of the bones) and took it to Tbilisi, the capital city of Georgia. They asked Professor Vikua, famous for discovering Homo Erectus Georgicus, to help them, but he died before he could do any research. When the scientists looked for the bones that Professor Vikua had, they could not find them.

In 2014, the Science Channel opened a new investigation, but they haven't found any new evidence or ⁵_____ a theory to explain these mysterious giant bones.

0 Choose the correct answers A–C.

A job advert from space

Are we in danger from visitors from other planets? Are the astronauts that we \underline{B} into space making life on this planet dangerous?

Last week while I¹_____ a science magazine, I found this interesting article. NASA, it said, were looking for someone to help them ²_____ experiments on the organisms that astronauts regularly collect during their trips into space. The job is to ³_____ notes on what you observe during these tests, and then work with other scientists looking closely at the data.

Your research may help protect Earth against a future alien invasion. But, NASA hopes, one day the results of your work might help them to ⁴__ new life on other planets. They might also help mankind ⁵__ parts of the universe where no man or woman has ever visited before. What a great job!

	A sent	Bsend
1	A did read	B read
2	A make	B do
3	A take	B have
4	A collect	B invent
5	A get	B reach

С	did send
С	was reading
_	

- C take C do
- C discover C qo

/5

/5



For Review Purpose Only

/5



VOCABULARY

Online • phones and computers • word building • collocations

I can use language related to science, technology and inventions.

SHOW WHAT YOU KNOW

- 1 Choose the correct verb. Then complete the sentences to make them true for you.
 - 1 The first thing I do when I visit / go online is ...
 - 2 The person I'd like to watch / (follow) on Twitter is ...
 - 3 The website I (visit) / go in most is ...
 - **4** The last music I downloaded / followed was ...
 - 5 The last comment [posted]/ sent on social media was ...
 - 6 The last time I updated / revised my social media profile was ...
- 2 SPEAKING Compare your sentences with a partner. How much time do you typically spend online each day?

Science and technology

Necessity is the mother of invention. A proverb

BBC



URBAN LEGENDS

6 Watch the BBC video. For the worksheet, go to page 118.

UNIT 2 VIDEOS

BBC Urban legends

GRAMMAR ANIMATION Lesson 2.2 (7) Lesson 2.5 (9) FOCUS VLOG About technology Lesson 2.2 (8)

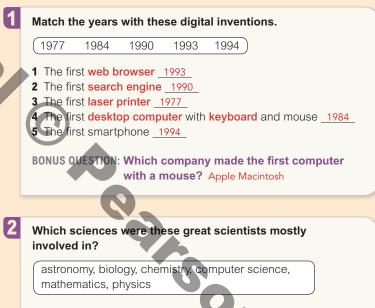
ROLE-PLAY Lesson 2.8 (© 10)

<u>18</u>

REFERENCES

Culture notes **p. 171** Audioscript **pp. 178–179** Videoscript **pp. 193–194** Using videos in the classroom **p. T14**

SCIENCE AND QUIZ







3

Nicolaus Copernicus Isaac Newton astronomy and mathematics physics and mathematics Charles Darwin

BONUS QUESTION: Which scientist won two Nobel Prizes? Marie Sklodowska-Curie

EXTRA ACTIVITIES

Photocopiable resource 7 *Crazy calculator* (20 min.) pp. 202, 218–219
Photocopiable resource 8 Test yourselves (10 min.) pp. 202, 220
Extra digital activities: Vocabulary Checkpoint • After completing Word Store 2A: Phones and computers, students underline the main stress in words of more than one syllable: <u>broad</u>band, <u>desk</u>top, computer, <u>key</u>board, <u>lap</u>top, <u>laser</u>, <u>printer</u>, <u>pass</u>word, <u>engine</u>, <u>message</u>, <u>u</u>sername, <u>brow</u>ser.

18

VIDEO

66

- 3 (1) 1.24 Do the Science and Technology Quiz. Then listen and check your answers.
- 4 (1) 1.25 Complete sentences 1–5 with the correct scientist in the quiz. Then listen to Part 2 again and check your answers.
 - 1 <u>Marie Sklodowska-Curie</u> <u>did</u> experiments with radioactive materials and <u>discovered</u> polonium and radium.
 - <u>Isaac Newton</u> did research into gravity, light and many areas of physics, maths and astronomy.

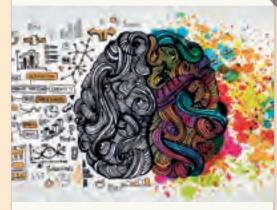
Alan Turing invented the idea of a 'Universal Machine' or a computer in 1936. Nicolaus Copernicus developed the theory that the Earth moves around the Sun.

5 <u>Charles Darwin</u> <u>observed</u> nature. He <u>took</u> notes and measurements and <u>collected</u> specimens from around the world.



3 Are statements 1–3 true (T) or false (F)?

- 1 Albert Einstein failed Mathematics at school. T /F
- 2 An earthquake can shorten the length of a day. (1)/ F
- 3 Some people are left-brained, others are right-brained. T /F



BONUS QUESTION: What percentage of our brain do we normally use? 100%! Your whole brain is active at all times.



Marie Sklodowska-Curie physics and chemistry



Alan Turing computer science

Go to WORD STORE 2 page 5

WORD STORE 2A Phones and computers

- 5 (1) 1.26 Complete WORD STORE 2A with the compound nouns in red in the quiz. Then listen, check and repeat.
- 6 Complete the questions with compound nouns in WORD STORE 2A.
 - 1 How many <u>text</u> messages do you usually send in a day?
 - 2 Do you always use the same <u>user</u> name and password online?
 - 3 Have you got a <u>desktop</u> computer or a laptop?
 - 4 Which is the most popular search <u>engine</u> in your country?
 - 5 Which web browser do you normally use?
 - 6 Have you got a reliable <u>broadband</u> connection with fast download speeds?
 - 7 Do you like typing on a smartphone or do you prefer to use a key<u>board</u>?
- 7 SPEAKING Ask and answer the questions in Exercise 6.

WORD STORE 2B Word building

- 8 **(1) 1.27** Complete WORD STORE 2B with the science subjects in the quiz. Then listen, check and repeat.
- **9** SPEAKING Discuss the questions.
 - 1 Would you like to be a scientist? Why?/Why not?
 - **2** Which science subject do you find easiest/most difficult to understand?
 - 3 Which science subject do you think will be most useful to you in the future? Why?

WORD STORE 2C Collocations

0 1.28 Complete WORD STORE 2C with the infinitive form of the underlined verbs in Exercise 4. Then listen, check and repeat.

- 11 Complete the sentences with the correct verb in Word Store 2C in an appropriate form.
 - 1 Tim has <u>invented</u> a new program. It will change how people manage databases.
 - 2 Rowena <u>observes</u> the sky at night. She hopes to <u>discover</u> a new planet.
 - 3 Lucie <u>collects</u> wild plants to develop new drugs.
 - 4 Fred is <u>doing</u> research into laser technology for his doctorate.
 - 5 Lena <u>does</u> experiments on plastics to measure how strong they are.
 - 6 George looks at big numbers and <u>takes</u> notes. He produces formulas to solve problems.

12 SPEAKING What kind of scientist is each person in Exercise 11? Discuss which science you think is the most/least important to society.

- 1 Tim = a computer scientist
- 2 Rowena astronomer 3 Lucie – biologist
- 3 Lucie biologist 4 Fred – physicist
- 5 Lena chemist
- 6 George mathematician

19

WORKBOOK

pp. 18–19, including Show What You've Learnt

NEXT CLASS

Ask students to prepare for a 10–20-minute Vocabulary Quiz: Assessment Package, Unit 2.1, Vocabulary.
Ask students to do Show What You Know in the WB, p. 20. ÓP

GRAMMAR

Past Continuous and Past Simple

I can use the Past Simple and Past Continuous to describe past events.

SPEAKING Read what people say about e-books and printed books. Which comments do you agree with? Think of more advantages and disadvantages. Discuss with a partner.

1) When I go on holiday, I don't have to pack heavy books.

2) I like the feel of a real book in my hands.

I work with computer screens all day – I don't want to read books on a screen too.

- 4) Books are so expensive. E-books are cheaper.
- Read about E ink. Who was Joe Jacobson and 2 why did he have a 'Eureka' moment?

Joe Jacobson was a researcher. Because he finished his book and wanted another one to read.

Exercise 2

Exercise 7

computer crash

when you were

homework last

watching a film

doing your

2 Did your

night?

3 Were you

when your

yesterday?

4 Was it raining

when you woke up this

morning?

you were

6 Did a friend

you were

walking to school?

text you when

making breakfast?

5 Did you burn

yourself when

mum got

home



In 1997 Joe Jacobson was working as a researcher for the Massachusetts Institute of Technology (MIT). One summer, he went on holiday to the coast. He was lying on a beach when he finished his book. Unfortunately, he didn't have another one with him. At that moment, he imagined

an electronic book that he could download any time he wanted and read in direct sunlight. It was a 'Eureka' moment. His vision became E ink technology and helped

develop the e-readers that we have today.

Read the GRAMMAR FOCUS. Complete the 3 examples using the past forms in blue in Exercise 2.

GRAMMAR FOCUS

Past Continuous and Past Simple

- You use the Past Continuous to talk about longer actions in progress at a time in the past. In 1997 Joe Jacobson¹ was working as a researcher
- for MIT. You often use the **Past Continuous** with the **Past Simple** – usually when a short action (Past Simple) interrupted a longer action (Past Continuous). He² was lying on a beach when he
 - ³ finished his book.

Past Continuous: was/were + -ing form

- I was working etc.
- She wasn't working etc.
- ? Were you working? etc.

4 Complete the beginnings of two stories with the Past Simple or the Past Continuous form of the verbs in brackets.



It was a terrible stormy night six months after my father's death. My mother ¹was sitting (sit) alone by the fire, waiting for her baby to arrive. She ² was feeling (feel) sad and ill. Suddenly she ³ heard (hear) a noise outside. 'There's someone at the door, Peggotty,' my mother ⁴ called (call). 'Who is it?' Peggotty was her servant and her only real friend. 'I'll go and see,' Peggotty replied (reply). She ⁶ went (go) and ⁷ opened (open) the door.

VIDEO

6768



As the carriage moved guickly along the rough dry road, Jonathan Harker ⁸was looking out (look out) at the changing view. Behind him was a land of small, green hills and colourful fields of fruit trees. Now he ⁹ was driving (drive) into the Transylvanian mountains through a thick forest. It ¹⁰ was getting (get) dark, and the other people in the carriage ¹¹ were (be) quiet and afraid. A woman opposite him ¹² reached (reach) towards him and 13 (put) put something in his hand. It ¹⁴ was (be) a small, silver cross. 'Wear it around your neck,' she said. 'You'll be safe.'



5 SPEAKING Which story would you like to continue reading and why? Tell your partner.

Complete each sentence with one Past Simple and one Past Continuous verb form. Which sentences are true for you?

- My parents <u>were studying</u> (study) when they <u>met</u> (meet). 2 My computer <u>crashed</u> (crash) when I <u>was doing</u> (do) my homework last night.
 - was watching (watch) a film when my mum (get) home yesterday. got
- 4 lt was ra (rain) when I woke up (wake up) this aining morning.
- burned (burn) myself when I <u>was making</u> (make) 5 | breakfast.
- texte 6 A friend (text) me when I <u>was walking</u> (walk) to school.
- 7 Write questions for the sentences in Exercise 6. Change pronouns where necessary. Then ask your partner as in the example.
 - A: Were your parents studying when they met?
 - B: No, they weren't.

FOCUS VLOG 68 About technology

🕑 8) Watch the Focus Vlog. For the worksheet, go to page 119.

Grammar page 135

REFERENCES

<u>20</u>

Culture notes p. 171 Videoscript p. 194 Using videos in the classroom **p. T14**

EXTRA ACTIVITIES

For Review Purpose

• Grammar animation • Photocopiable resource 9 Test yourselves (10 min.) pp. 202, 221 • Extra digital activities: Grammar Checkpoint

WORKBOOK

p. 20, including Show What You've Learnt

NEXT CLASS

Ask students to prepare for a 10–20-minute Grammar Quiz: Assessment Package, Unit 2.2, Grammar.

20



LISTENING

Matching

I can identify key details in a simple recorded narrative about scientists

Α

archaeology

linguist

E

6

2

6

ANATEO

▲ 1.29 Label the photos with the words in the box. Then listen, check and repeat.

linguistics geology marine biology archaeology psychology conservation

EXAM FOCUS Matching

- 2 **(1) 1.30** Listen to two conversations and choose the correct answer.
 - 1 What does the girl want to study in the future? photo A photo B 📄 photo D 🖌
 - 2 The girl and the boy have both seen one of the documentaries. What was it about? photo B 🖌 🛛 photo E photo F 🗌
- 3 (1) 1.31 SPEAKING Complete the job descriptions with the jobs in the box. Then listen, check and repeat. Do you know anybody who does one of these jobs? Tell your partner.

A linguist A geologist A marine biologist A psychologist An archaeologist A conservationist

- 1 <u>A linguist</u> studies and often speaks a lot of languages.
- 2 <u>A conservationist</u> studies ways of protecting the environment.
- 3 <u>A geologist</u> studies rocks and the history of the Earth.
- 4 <u>A psychologist</u> studies how people behave and how their minds work.
- 5 An archaeologist studies people who lived thousands of years ago.
- 6 <u>A marine biologist</u> studies, observes and protects oceans.
- 4 **1.32** Listen to five speakers talking about why they became scientists. Which job in Exercise 3 does each person do?
- 5 **1.32** Listen again. Match speakers 1–5 with statements A-F. There is one extra statement.
 - Speaker 1: B Speaker 2: F
- Speaker 3: A Speaker 5: C Speaker 4: D
 - A I want to understand how early childhood affects behaviour.
 - B I'm keen on studying how machines can communicate.
 - C I want to explore oceans and preserve the ocean environment.
 - D I'm interested in studying our prehistoric ancestors.
 - E I want to study the evolution of our planet.
 - F I want to find solutions to nature's problems.

REFERENCES

Audioscript p. 179

EXTRA ACTIVITIES

Students write the jobs in order 1–6 of preference for themselves (1 = best, 6 = least favourite). They compare in pairs, justifying their choices and trying to use the new vocabulary. or Review Purpose

WORKBOOK

p. 21

NEXT CLASS

Ask students to find out three facts about Antarctic exploration.

conservatio F psychology **PRONUNCIATION FOCUS** (1.33) Complete the table. Then listen, check and repeat. Mark the stress. Subject Job 1 archae<u>ol</u>ogy archae<u>o</u>logist analysis analyst 3 conservation conservationist geology ge<u>ol</u>ogist linguistics linguist psy<u>chol</u>ogy psychologist

D

- SPEAKING Practise the words in Exercise 6 as in the 7 example. Pay attention to the stress.
 - A: What does an archaeologist do? B: Archaeology.

WORD STORE 2D Collocations

- 8 (1) 1.34 Complete WORD STORE 2D with the words in the box. Then listen, check and repeat.
- 9 Complete the statements about the speakers with the words and phrases in WORD STORE 2D.
 - 1 The marine biologist wants to collect about global warming.
 - 2 The linguist has published <u>a research paper</u> on robot communication.
 - 3 The psychologist loves doing research and analysing data
 - 4 The archaeologist spent <u>hours</u> in the Egyptian room in the Louvre.
 - 5 The conservationist is doing research into climate change to help protect the environment .
- 10 SPEAKING How common is it to study the same subjects as your parents? Think about your friends and family. What will you do? Discuss with a partner.

21

21

Exercise 4

2 A conservationist

3 A psychologist

4 An archaeologist

1 A linguist

5 A marine

biologist

READING

Multiple choice

I can scan an interview to locate specific information.

- 1 SPEAKING Look at the photos of Antarctica. Discuss the questions.
 - 1 What do you think it's like working there? 2 What kind of jobs do you think people do?
- 2 Look at comments from people interested in working in Antarctica. Tick the people who you think are suitable.
 - 1 'I don't mind working long hours.'
 - 2 'I don't like the dark.'
 - 🚨 'l need my own space.'
 - 4 'I'm very fit and healthy.'
 - 'I expect to earn lots of money.'
 - 6 'I want to save the planet.'
- 3 1.35 Listen to a talk about working in Antarctica. Check your ideas in Exercises 1 and 2.
- 4 SPEAKING Discuss whether you would like to work in Antarctica. Explain why or why not.
- 5 Read an interview with a research scientist and answer the questions.
 - 1 What is the population of Antarctica? 1,000–4,000
 - 2 What did Jane Roberts do in her free time in Antarctica? She read lots of books and played games.
 - 3 What did she miss most when she was there? colours

EXAM FOCUS Multiple choice

- 6 Read the text again. For questions 1-5, choose the correct answer, A, B, C or D.
 - 1 The South Pole Station is named after A the first person to reach the South Pole. B the first person who died after reaching the South Pole. C the five people who died after reaching the South Pole.
 - Dthe first two explorers to reach the South Pole.
 - 2 People who work in Antarctica A are residents of Antarctica.

 - B live in small towns.
 - Cstay for a period of time in research stations.
 - D return to their country in winter.
 - 3 Jane discovered that
 - A she likes working in a laboratory.
 - B millions of years ago dinosaurs lived on ice. Cthe Antarctic wasn't always cold.
 - D research is like doing a jigsaw.
 - 4 The temperature at the South Pole A is -80 degrees all year round.
 - **B** is usually above zero in summer.
 - ©never rises above zero.
 - D is too cold to go outside.
 - 5 In the interview, Jane
 - Adescribes her experience of working in Antarctica.
 - B encourages tourists to visit Antarctica.
 - C explains how researchers apply for jobs in Antarctica.
 - D presents her research into the weather in Antarctica.

- 7 1.37 Match the words in blue in the text with the definitions in the box. Then listen, check and repeat.
 - 1 several sheets of material on top of one another = layers
 - 2 the skeleton = <u>remains</u>
 - 3 a place where planes can land = ____airstrip
 - 4 organise and manage = <u>run</u>
 - 5 a place to eat, usually in a school or factory = canteen
 - 6 a picture cut into small pieces that you put together = jigsaw
 - 7 arrived (at a place) = <u>reached</u>
- 8 SPEAKING Complete the questions with the correct form of the words in Exercise 7. Then ask and answer the questions.
 - 1 How long does it take you to <u>reach</u> home after school?
 - 2 Do you usually have lunch in the school canteen ?
 - 3 Have you ever completed a 1,000-piece jigsaw ?
 - 4 Would you like to _ run your own business one day?
 - 5 How many <u>layers</u> of clothing do you wear when you go outside in winter?
 - 6 Do any museums in your city have dinosaur remains ?
- 9 (1) 1.38 Listen to the words and phrases in the box and repeat them. Then complete the text.

above/below zero average temperature (0°) degrees centigrade (Celsius) plus/minus 10°C The temperature rises/falls to (+40°/-80°) degrees.

Antarctic weather

The interior of Antarctica is the coldest place on Earth. The hottest month at the South Pole is January with an average temperature of minus 25¹ degrees centigrade. This is the summer in Antarctica. In fact, the temperature in Antarctica has never risen² above zero. The warmest temperature ever recorded at the South Pole (on December 25, 2011) was ³___ minus 12.3 degrees ⁴centigrade/Celsius . In winter, temperatures ⁵ fall to 80 degrees centigrade ⁶ below zero. The coldest month is September.

10 SPEAKING Tell your partner about the last time you experienced an extreme temperature, hot or cold. Use the questions to prepare.

- 1 When did you experience an extreme temperature? 2 Where were you and what were you doing at the time?
- 3 What was the temperature? How long did it last?
- 4 How did you manage and what did you do?
- 5 Do you like extreme temperatures? Why?/Why not?

WORD STORE 2E The temperature

11 (1) 1.39 Complete WORD STORE 2E by arranging the adjectives in order from coldest to hottest. Then listen, check and repeat.

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REFERENCES

Culture notes p. 171 Audioscript p. 179

EXTRA ACTIVITIES

Students write true/false sentences about the text, e.g. Not many people apply for a job in Antarctica. (F) Roald Amundsen was the first person to get to the South Pole. (T) They exchange their sentences with a partner and decide whether the

WORKBOOK

pp. 22-23

NEXT CLASS

Ask students to do Show What You Know in the WB, p. 24.

sentences are true or false.

Science at the **South Pole**



♦) 1.36

Jane Roberts is a marine biologist. She worked for two years in Antarctica. Here, she answers your questions.

Is there really a pole at the South Pole?

Yes, there is. It's in front of the Amundsen-Scott South Pole Station. In 1911 a Norwegian explorer called Roald Amundsen was the first person to get there, followed by a British man, Robert Falcon

- s Scott, thirty-four days later. Unfortunately, Scott and his team of five all died on the return journey. When the first explorers reached the South Pole there was nothing there. Now, several hundred people work at the Station. There's an airstrip for small planes,
 a canteen, hot showers, a post office, a tourist shop,
- a basketball court and a movie theatre.

Who does Antarctica belong to?

Antarctica doesn't belong to any nation. There's no permanent population, but there are bases that look like small towns. Thirty different countries **run** about

15 seventy research stations in Antarctica. People stay there between three and eighteen months. Most people work only in the summer months, but some stay all year round. The population is around 4,000 in summer and 1,000 in winter.

Why did you want to work in Antarctica?

20 I was studying in London and I read about an exciting research project in Antarctica. I applied for the job, but thousands of other people also applied. I was lucky!

What exactly were you doing there?

I was doing research into marine life. I collected specimens of ice and examined them in the laboratory. There are layers of 25 ice thousands of years old! We found the remains of a dinosaur.

It was in millions of pieces and we had to put all the pieces together like a jigsaw. Our research showed us that millions of years ago the Antarctic was much warmer.

What did you wear in Antarctica?

It's extremely cold all year round. When I was doing 30 experiments outside, I wore three pairs of socks and often five layers of clothing. Winter temperatures fall to -80°C and even summer temperatures are below zero at the South Pole. For several months, there's no sunlight at all. Sometimes it's too cold to go outside.

What did you do in your free time?

35 When it was snowing, we read lots of books and played games. There isn't much to do in Antarctica, but I enjoy reading and I made some good friends there too.

Did you miss home?

No, but I missed colours – it's very white in Antarctica! But I was working all day and it was really interesting work.



VIDEO

GRAMMAR

used to

I can use used to to refer to past habits and routines.



AKING Look at the photos. In what way are these things different today? Discuss with a partner.

fashion friends music relationships school technology travel

- 2 1.40 Listen to a dialogue between Chris and his granddad. Are the sentences about Chris's granddad true (T) or false (F)?
 - 1 He used to phone people from the phone in the sitting room.
 - **2** He used to message people.
 - **3** He didn't use to live near his friends. 4 His mum didn't use to like the loud music in
 - his bedroom.
 - 5 His parents bought him a camera for his sixteenth birthday.
 - 6 He used to have five or six good friends.
- 3 Read the GRAMMAR FOCUS. Complete the examples using the past forms in blue in Exercise 2.

GRAMMAR FOCUS 69

used to

- You use **used to + verb** to talk about past states that are no longer true.
 - _ have five or six good friends. He ¹ used to
- You use **used to + verb** to talk about regular past actions that don't happen anymore. He² used to phone people from the phone in the sitting room.
- You don't use **used to + verb** to talk about a past action that only happened once. You use the **Past Simple**. His parents ³ bought him a camera for his sixteenth birthday. (NOT used to buy)

used to + verb

- I used to work ...
- He didn't use to work
 - Did they use to work ...? Yes, they did./No they didn't.



- Complete the sentences with the correct form of the verbs in brackets. Use used to + verb or the Present Simple.
 - 1 People <u>used to read</u> (read) maps but now they use (use) GPS.
 - 2 People didn't use to use (not/use) their cars much but now they <u>drive</u> (drive) everywhere.
 - 3 People <u>update</u> (update) their online profiles now, but they <u>used to write</u> (write) letters.
 - 4 Children _____ play___ (play) inside now but in the past they <u>used to play</u> (play) outside.
 - **5** Teachers <u>used to suggest</u> (suggest) books but now they <u>give out</u> give out) website addresses.
 - 6 Families used to watch (watch) the TV together but now they <u>watch</u> (watch) it individually.
 - 7 Students <u>use</u> (use) Google now, but they used to look up (look up) things in encyclopedias.
 - Parents didn't use to worry (not/worry) so much but now they <u>give</u> (give) children less freedom.
- 5 EAKING Discuss the statements in Exercise 4. Do you think they are all true?
- 6 Replace the Past Simple with used to + verb if possible. Which sentences are true for you?
 - When I was at primary school, ... 1 my parents took me to school every day. used to take
 - 2 I didn't go online much, didn't use to go
 - 3 I went on a school trip to the Science Museum. X
 - 4 I didn't like school dinners, didn't use to like
 - 5 my parents bought me my first mobile phone. X
- 6 I wanted to be an astronaut. used to want to be
- 7 Make questions for the sentences in Exercise 6 Then ask and answer as in the example.
 - A: Did your parents use to take you to school? B: Yes, they did.

Grammar page 136

REFERENCES

• Grammar animation

?

24

Culture notes pp. 171–172 Audioscript p. 180 Using videos in the classroom **p. T14**

• Extra digital activities: Grammar Checkpoint **EXTRA ACTIVITIES**

WORKBOOK



• Photocopiable resource 10 When you

were a child ... (15min.) pp. 202, 222

F

NEXT CLASS

- Ask students to prepare for
- a 10–20-minute Grammar Quiz:
- Assessment Package, Unit 2.5, Grammar.
- Ask students to think about
- a biographical film they have seen. Who was it about? Students make short notes to talk about the film.

- to like school dinners?
- parents buy you your first
- to want to be
- **5** Did your
- 6 Did you use

much? 3 Did you go on a school trip to the Science Museum?

Exercise 7

2 Did you use

to go online

- mobile phone?
- an astronaut?

4 Did you use



USE OF ENGLISH

Linkers and time expressions

I can use a range of common linking words and time expressions.

(1) 1.41 SPEAKING Look at the photo. Discuss what you think the film is about. Use the ideas in the box. Then listen and check.

civil rights for black women 🗸 computers 🗸 mathematicians 🗸 American space projects 🗸 robots 🗴

- 2 141 Listen again and choose the correct option.
 - 1 The three women worked for NASA as mathematicians/ astronauts during the 1950s and 60s.
 - 2 While they were working for NASA, they earned more / less than their white colleagues.
 - 3 Segregation between blacks and whites continued until the mid-/ late 1960s.
 - 4 When the film came out, Katherine Johnson now 78 / 98 years old - met the actress who played her.
 - 5 As soon as Johnson arrived at the 2016 / 2017 Oscars ceremony, everyone stood up and cheered.
- 3 Read the LANGUAGE FOCUS. Complete the information with the words in blue in Exercise 2.

LANGUAGE FOCUS

Linkers and time expressions

- You use conjunctions when/while to link things that happen at the same time. [conjunction + subject + verb] ¹<u>While</u> they were working for NASA, they earned less than their white colleagues
- You use conjunctions *after/*² as soon as /*before/when* to link things that happen in an order. [conjunction + subject + verb] When the film came out, Johnson met the actress who played her.
- You use prepositions *during/for/until (till)/by* as follows: during + noun phrase to say when something happens during the 1950s and 60s

until (till) + noun phrase to talk about a state that continues up to a point in time -

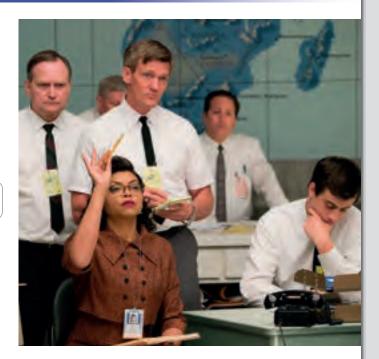
Segregation continued 5_ until

the mid-1960s. **by** + noun phrase to talk about an action that happens at or before a point in time -

Segregation stopped by the late 1960s.

4 Choose the correct option. Then change the information to make the sentences true for you.

- 1 I haven't been to the cinema for/ during several weeks.
- 2 I saw Hidden Figures during / while I was on holiday.
- 3 I learnt a lot about American Civil Rights during/ while the film.
- 4 I didn't know that segregation in the USA continued (until)/ by 1964.
- 5 I ate some popcorn when/ after I was watching the film.
- 6 As soon as/ While the film finished, I went home.



1.42 USE OF ENGLISH Read the text. Choose the correct answer, A, B or C. Then listen and check.



KATHERINE JOHNSON

¹<u>When</u> Katherine Johnson was a child, she was a maths genius. ²____ she was only 14, she went to university to study Maths. 3 she was studying at university, her Maths professor told her she should become a research mathematician. ⁴_____ she graduated from university she became a teacher. 5_ the 1940s she got married and had children.

She didn't become a research mathematician ⁶_____ she was 35. She got a job as a 'computer' with NASA. Katherine was different from other 'computers' - 7____ she was at NASA, she asked a lot of questions. ⁸_____ Katherine Johnson started work at NASA, only men went to important meetings. She changed that!

1 A When	B Before	C During
2 A While	BWhen	C Until
3 A During	BWhile	C After
4 A Before	B While	CAs soon as
5 A Till	BDuring	C While
6 \land until	B by	C during
7 A during	B while 💧	C after
8 \land Before	B During	C As soon as

- 6 Complete the sentences. Write five true sentences and one false.
 - 1 While I was going home yesterday, I...
 - 2 As soon as I got home, I ...
 - 3 During the evening I ...
 - 4 I didn't go to bed until ...
 - 5 I was fast asleep by ...
- SPEAKING Read your sentences in Exercise 6 to your partner for him/her to guess which sentence is false.

Use of English page 137

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REFERENCES

Culture notes p. 172 Audioscript p. 180

EXTRA ACTIVITIES

• Students do another version of ex. 6: They write five sentence endings e.g. ..., I went straight to bed. They exchange them with a partner and complete them to write true sentences using appropriate linkers in ex. 3.

• Ask students to tell the class about a biographical film using the notes they have prepared.

• Ask students to prepare for a 10–20-minute Use of English Quiz: Assessment Package, Unit 2.6, Use of English.

p. 25

WORKBOOK

NEXT CLASS

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02:

WRITING

A story

I can write a story with a simple linear sequence.

 SPEAKING Tell your partner about a surprising or interesting thing that happened to you on holiday. Say:

- 1 where and when it happened.
- 2 how old you were.
- 3 what you were doing when it happened.

Read Paul's story and choose the best title, A, B or C.

- A The Holiday of a Lifetime B Surprise by the Sea
- C Beautiful Cornwall

I was twelve years old and my parents and I were on holiday in Cornwall. They are both biologists and we all love nature. One morning, Dad suggested walking along the beach to a distant village.

It was a lovely day for a walk, but after an hour, I noticed some dark clouds. I asked my parents if they thought we should go back. They smiled at each other, and then Mum said we were nearly there.

What was going on? Mum usually made me go indoors during storms. What's more, we were still far away from the village. <u>Anyway</u>, suddenly, there was loud thunder and it started to rain. "Come on, quick!" my father said. "We're almost there."

I noticed a cottage not far away. Dad started running towards it <u>so</u> we ran after him. When we got there, he seemed really excited, which <u>I must admit</u> was a bit strange. **Unfortunately**, there was no one home. 'That's unlucky,' said Dad 'but wait...' **Suddenly**, he took a key from his pocket, unlocked the door and pushed it open. He was silent for a moment. Then with a smile he said: "Come in. And welcome home!" What a surprise!

In fact, thinking back to my parents' behaviour during the first part of our holiday, I knew something strange was going on – but I had no idea what! Our new holiday home was the perfect place for nature lovers. It was awesome!

We still live in London, but our cottage in Cornwall is our dream house, and I will never forget the day I first saw it.

3 Read the story again and put events in the correct order.

3

6

1

4 2

- a Nobody answered the door.
- **b** The weather changed.
- ${\bf c}\;$ The family went into their new holiday home.
- **d** The family went to Cornwall on holiday.
- e Paul saw a cottage in the distance.
- f The family went for a walk along the coast.
- 4 Read the WRITING FOCUS. Complete the examples with the words in purple in the story.

WRITING FOCUS

A story

- Set the scene:
 I ¹<u>was twelve years</u> old when ...
 It was late in the evening when ...
 It ²<u>was a lovely day for</u> a walk.
 I was in the classroom when ...
- Use questions, short dramatic sentences and occasional exclamation marks to show surprise or excitement:

What was ³ going on? What a ⁴ surprise ! What a nightmare! It was ⁵ awesome ! We were in trouble.

- Use adverbs to add interest: All of a sudden, /⁶Unfortunately/Suddenly , / ⁷Unfortunately/Suddenly , / Luckily, ... really (good)
- ... incredibly (beautiful)
- ... completely (lost)
- Use a summarising statement to begin or end your story: I'll never forget ⁸ <u>the day</u> I first saw ... / the time I decided to ... / when I first went ... / ... was an event I'll never forget.

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REFERENCES Culture notes p. 172

EXTRA ACTIVITIES

• Photocopiable resource 11 A story

(15 min.) pp. 203, 223
 Students work in pairs and write a story Review Purpose Only beginning with: I'll never forget that day!

WORKBOOK

pp. 26–27, including Show What You've Learnt and Show That You've Checked

NEXT CLASS

Ask students to prepare notes about an adventure film that they have seen. What happened? What happened in the end? Students make short notes to talk about the film.



- 5 Read the extracts from different stories. Find and correct three mistakes in each.
- 1 I was 14 years old then when I first became interested in archaeology. I was looking for fossils one Sunday afternoon when I made the discovery that made me famous. I am 'll never forget the feeling of seeing it there in the ground for the first time. It was awesome?!
- 2 We were in the Chemistry lab at school when we noticed the strange smell. All of a suddenly sudden, there was a loud bang. What is was going on? Our teacher walked in from a lab next to ours. Her hair was a mess and her glasses were black with smoke. Lucky Luckily, she was more shocked than hurt. 'What happened, Miss?' asked one of my classmates.
- 3 The school trip to the science museum is a day I'll never remember forget. We had a great time at the museum. When we were going back to meet the others at the bus to go home, my friend and I got stuck in a lift. The lights went off and the alarm didn't work. We were on in trouble. What we were were we going to do?
- 6 SPEAKING Choose one of the extracts in Exercise 5 and say what you think happened next.
- 7 Complete the LANGUAGE FOCUS with the underlined linkers in the story.

LANGUAGE FOCUS

Informal linkers

In narrative stories we often use:

- I have to say or <u>I must admit</u> to emphasise the next piece of information.
- Anyhow or ² anyway to change the subject or move the story on.
- Actually or ³ in fact to show that the next piece of information is surprising.
- And, but, because, ⁴ <u>so</u> to join parts of sentences.
- Then, when, while, ⁵ during to make the order of events clear.

8 Read the story and choose the correct option.

'This is a bad start', I thought and looked again at the directions on my phone. I was trying to find the city hospital for my first day of work experience in the IT department there. Unfortunately, I was very late and totally lost.

¹(*have to say*)/Anyhow it was my fault. I forgot to check the route the day before. ² During/(Anyway), my phone said to turn right, but ³(*in fact*)/*I have to say* there was no right turn, just a wall! What was I going to do? I was already ten minutes late. 'Go back to the main road and try again,' I thought 'and go quickly!' I hurried along as fast as I could. I was turning a corner ⁴then/when/suddenly there was a bang ⁵and/so everything went black.

⁶When/I must admit I opened my eyes, there were four worried faces looking down at me. 'Are you alright?' 'Yes, I think so', I said. My head hurt. ⁷Then/While I remembered the bang and the darkness. 'What happened?'

'Well, you were hurrying along looking at your phone, and you bumped into that tree. We thought you should go to hospital so we've called an ambulance.'

Luckily, the doctor said I was fine. ⁸Anyway/ *must admit* that was not how I expected to arrive at the hospital for my first day of work experience!

SHOW WHAT YOU'VE LEARNT

Do the writing task. Use the ideas in the WRITING FOCUS and the LANGUAGE FOCUS to help you.

Your teacher has asked you to write a story ending with: I was so relieved. It was finally over!

Use the questions below to help you.

- Where were you?
- When was it?
- Who was with you?
- What happened?
- What could you see and hear?
- How did you feel?
- What did you do next?How did it end?

Remember to:

- give your story a title.
- make your story interesting for the reader.
- give your story a strong ending.

It was a chilly autumn morning ...

27

302

SPEAKING

Telling a story

I can tell a story and show interest in someone's story.

SPEAKING Look at the photo of Tom. Then ask and answer the questions.

- 1 Where was Tom? In Australia
- 2 What was he doing? He was climbing a mountain.
- 3 What was the problem? It became foggy and he got lost.

2 ▲ 1.43 Read and listen to the story. Compare your ideas in Exercise 1.



Lisa: Hi Tom. How was your holiday in Australia? Tom: It was really good, thanks ... except for the day I nearly died.

Lisa: What happened?

- Tom: I was doing some climbing. At first the sun was shining and I was enjoying myself. But <u>all of a sudden</u> the weather changed. It became really foggy and I couldn't see the path.
- Lisa: Oh dear, that sounds frightening.
- Tom: I was pretty worried. I continued for a while, but finally I realised I was lost.
- Lisa: What did you do?
- Tom: Fortunately, I had my phone with me so I called my father – 9,000 miles away in England! He called the Australian police and told them where I was. Then they called me. Unfortunately, my battery went dead after five seconds. It was dark and cold. I sat under a rock, put on my torch and waited. Lisa: Oh no, what a nightmare!
- Tom: Eventually, they found me. I was so relieved.
- I used to go climbing on my own all the time, but <u>I'll never do it again</u>.
- 3 There are often five stages in a story. Match stages 1-5 in Tom's story with headings a-e below.

d problem

e main events

- a background
- **b** final comment 1
- c introduction

28

REFERENCES

Audioscript p. 180 Using videos in the classroom p. T14

4 Read the SPEAKING FOCUS. Complete the examples with the underlined phrases in the story in Exercise 2.

VIDEO

SPEAKING FOCUS

Telling a story

Use the right tenses

- Past Continuous for the 'background': The sun ¹was shining and I was enjoying myself.
- Past Simple for the 'problem' and the 'main events': The weather changed. I couldn't see the path.

Use linkers

- Beginning: To start with/At ²
- Middle: Suddenly/All of a ³______sudden /Luckily/ Fortunately/⁴ Unfortunately
- **End:** In the end/Finally/⁵ Eventually

Say how you felt

I was excited/frightened/surprised/shocked/worried, etc.

Make a 'final comment'

It was the best/worst day of my life! I'll never forget the look on his face! I'll never ⁶ do it again .

Listening to a story

Neutral response Really?/Oh dear./Oh no.

Strong response

That sounds amazing/funny/7 <u>frightening</u>. What a great story/⁸a <u>nightmare</u> !

Respond with questions

What happened? What did you do?

- 5 Follow the instructions to prepare your story.
 - 1 Choose a topic from the box or one of your own ideas.
 - a dangerous situation a mistake
 - some good or bad news some good or bad luck a nice surprise something that happened on holiday a problem with technology
 - 2 Think about what you are going to say and make notes under the headings for the five stages of a story in Exercise 3.
- 6 SPEAKING Follow the instructions below to practise telling your stories. Then act out your dialogue to the class.

Student A: Use your notes in Exercise 5 to tell the story.

Student B: Use the SPEAKING FOCUS to respond to what Student A says.

ROLE-PLAY 610 Telling a story

🕑 10) Watch the video and practise. Then role-play your dialogue.

EXTRA ACTIVITIES

For Reprepared at home. UNDOSC

4

• Students work in pairs. One is Tom (from the dialogue in ex. 2), the other is a journalist who interviews Tom. • Students tell their stories of the adventure films using the notes they

WORKBOOK

p. 28

NEXT CLASS Ask students to study the Word list on p. 29.

610

UNIT 2

2.1 Vocabulary (4) 4.9

astronomer /ə'stronəmə/ astronomy /əˈstrɒnəmi/ biologist /bai'plədʒist/ biology /bai'plədzi/ broadband /'brordbænd/ camera /'kæmərə/ chemist /'kemist/ chemistry /'keməstri/ collect specimens /kə,lekt 'spesəmənz/ computer science /kəm'pjuːtə ˌsaɪəns/ computer scientist /kəm.pjuːtə saiəntist/ desktop computer / desktop kəm'pjurtə/ develop a theory /dɪˌveləp ə 'θɪəri/ digital /ˈdɪdʒətl/ discover /dis'kAvə/ do an experiment / dur an ik'sperimont/ do research / dui ri'sait [/ download music / davn lood mjuzzik/ gravity /'grævəti/ invent /In'vent/ keyboard /'kirbord/ laptop /'læptop/ laser printer /'leizə ,printə/ mathematician /,mæθəmə'tıʃən/ mathematics / mæθə'mætiks/ mouse /maus/ observe /əb'zarv/ password /'passw3td/ physicist /'fizəsist/ physics /'fiziks/ planet /'plænət/ science /'sarəns/ scientist /'saiantist/ screen /skrim/ search engine /'sɜɪt∫ ˌendʒən/ smartphone /'smartfaun/ take measurements / terk 'megamants/ take notes / terk 'nouts/ text message /'tekst _mesid3/ update your profile /Ap.deit jor 'prəufail/ username /'juzzoneim/ visit a website / vizət ə 'websait/ web browser /'web brauzə/

2.2 Grammar 📣 4.10

arrive /ə'raıv/ burn yourself /'b3in jə,self/ carriage /'kærɪdʒ/ coast /kəust/ crash /kræʃ/ direct sunlight /dai'rekt 'sAnlait/ e-book /'ir bok/ E ink /'ir 1ŋk/ electronic / elik'tronik/ e-reader /'ir ,rirdə/ get dark / get 'dark/ get home / get 'houm/ hill /hɪl/ imagine /I'mæd3IN/ reach towards / rint∫ tə'wəndz/ reply /rɪ'plaɪ/

Science and technology

researcher /ri's3:tʃə/ rough /rʌf/ servant /'s3:vənt/ silver cross /,s1lvə 'kros/ text sb /'tekst ,sʌmbodi/ thick forest /,01k 'forəst/ vision /'vɪʒən/ wake up /,weɪk 'ʌp/

2.3 Listening (4) 4.11

affect /ə'fekt/ analyse data/evidence / manalaiz 'deitə/ 'evədəns/ analysis /ə'næləsəs/ ancestor /'ænsəstə/ archaeologist /ˌɑːki'ɒlədʒɪst/ archaeology / arki'plədzi/ collect data/evidence /kə,lekt 'deitə/ 'evədəns/ conservation / kpnsə'vei∫ən/ conservationist / konsə'vei jənist/ discovery /dɪs'kʌvəri/ environment /In'vaironmont/ evolution / ˌiɪvə'luɪ∫ən/ exploration / eksplə'reijən/ explore /ik'splor/ find a solution / faind ə sə'lu: ʃən/ geologist /dʒi'ɒlədʒɪst/ geology /dzi'olədzi/ global warming / glaubal 'warmin/ linguist / hngwist/ linguistics /liŋ'gwistiks/ marine biologist /mə,rim baı'plədzəst/ marine biology /mə,rim bar biologi observation /,øbzə'veı∫ən/ protect the environment /prə,tekt ði in'vairənmənt/ protection /prə'tek [ən/ psychologist /sai'kplədʒist/ psychology /sai'kplədzi/ publish a research paper/evidence /,pAblif a ri'ssitf ,peipa/'evadans/ solution /səˈluːʃən/ solve /splv/ spend hours / spend 'auəz/ technology /tek'nolədzi/

2.4 Reading (4) 4.12

above zero /ə,bAV 'ZIƏRƏU/ airstrip /'eəstrip/ average temperature / ævərid3 'temprət∫ə/ below zero /bɪˌləʊ 'zɪərəʊ/ boiling /'boilin/ canteen /kæn'ti:n/ chilly /'t∫ıli/ cold /kəuld/ degree centigrade /di.griz 'sentəgreid/ fall /fɔːl/ freezing /'frizzıŋ/ hot /hpt/ jigsaw /'dʒɪgsəː/ layer /'leiə/ own (adj) /əʊn/ permanent /'ps:mənənt/

Word list

 plus/minus 25 degrees /'plAs/'maines

 'twenti 'farv di 'gri:z/

 reach home/the South Pole /,ri:t∫

 'heom/ðe sauθ 'peol/

 recorded /ri 'ko:did/

 remains /ri'meinz/

 return to /ri't3:n te/

 rise /raiz/

 run a business/research station /,rAn e

 'biznes/ri's3:t∫ 'stei∫en/

 save /seiv/

 the dark /ðe da:k/

 warm /wo:m/

2.5 Grammar 4) 4.13

astronaut /'æstrənə:t/ give out /,gɪv 'aʊt/ GPS /,dʒi: pi: 'es/ mobile phone /,məubaɪl 'fəun/ inside /ɪn'saɪd/ outside /aʊt'saɪd/

2.6 Use of English 📣 4.14

cheer /tʃiə/ civil rights /,sɪvəl 'raɪts/ fast asleep /,fɑːst ə'sliɪp/ graduate from /'grædʒueɪt frəm/ look up /,lʊk 'ʌp/ space /speɪs/ stand up /,stænd 'ʌp/

2.7 Writing (4) 4.15

distant /'dɪstənt/ loud thunder /laʊd 'θʌndə/ fossils /'fɒsəlz/ get stuck /get stʌk/ lift /lɪft/ directions /daɪ'rekʃənz/ route /ruːt/ turn a corner /tɜːn ə 'kɔːnə/

2.8 Speaking (4)) 4.16

all of a sudden /,5:l əv ə 'sʌdn/ frightened /'fraitnd/ go dead /,gəu 'ded/ nightmare /'naitmeə/ put of /,put 'bn/ shocked /fbkt/ surprised /sə 'praizd/ torch /tɔ:ti]/

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WORD LIST ACTIVITIES

• Students study the list for a few minutes, then close their books. Play *Snowman* with words from the list. One student draws a dash for each letter of the word and then a part of the snowman for each wrong guess. Students get a point when they guess the word before the snowman is complete. They lose a point when they guess wrong and the last part of the snowman is complete. Only the student drawing the snowman can check the spelling in their book. They take turns.
Students study the list for a few minutes and then work in teams. Call out a word in the students' own language and ask them to give you the English word. The first team to answer correctly gets a point. Now call out a word in English and ask students to give you a translation. Continue for five minutes calling out words in both languages. The team with the most points wins.

FOCUS REVIEW 2

VOCABULARY AND GRAMMAR

Complete the sentences with the correct form of the verbs in the box. There is one extra verb.

collect develop discover do invent observe take

- 1 Edwin Hubble (1889–1953), an American astronomer, observed galaxies through a telescope.
- 2 Last month the scientists <u>collected</u> specimens of some sea spiders from Antarctica.
- 3 Make sure you take notes when we are at the museum.
- 4 Do you know who <u>invented</u> the electric guitar? This month two teams of archaeology students 5
- are doing research in South Africa. Linguists and psychologists are cooperating to

a new theory of language learning.

- Complete the sentences with the correct form of the 2 words in capitals.
 - 1 Mr Marco works as a <u>physicist</u> at the University of Alaska, PHYSICS
 - 2 We all tried to find the best <u>solution(s)</u> to the problem. SOLVE
 - 3 I want to study <u>Chemistry</u> at university. CHEMIST
 4 A <u>conservationist</u> is someone who works to protect
 - plants and animals. CONSERVE
 - 5 Take <u>measurements</u> of your desk before you buy a new computer screen. MEASURE
 - 6 The cost of space exploration is very high. EXPLORE

3 Use the prompts to write sentences.

- 1 My computer / crash / while / I / download / a song. 2 Tom / lose / his smartphone / when / he / run / in the
- park. 3 The first international Internet chat / take place / in February 1989.
- 4 It / be / so hot yesterday. The temperature / rise / to 38 degrees Celsius.
- 5 What / you / do / this time last year?
- 6 I / wait / for the photos from Sandra / last night / but / she / not / send / me any.

4 Choose the correct option.

- 1 Broadband Internet didn't use to be/ weren't so popular in the 1980s.
- 2 Did your grandparents use to buy / (buy) a black and white television in the 1960s?
- 3 (We did) / used to do a lot of exercises last weekend.
- 4 My brother used to spend/ was spending a few hours a day online.
- **5** Last winter the temperature used to fall / fell to minus 28 degrees Celsius.
- 6 Did they use to use / Did they use GPS when they were climbing in the Alps?

USE OF ENGLISH

- 5 Choose the answer, A, B or C, that is closest in meaning to the underlined words.
 - 1 NASA is running a project on using 3D printers to make food in space.
 - A is analysing (B) is organising **C** is planning
 - 2 When Anton was a student, he applied for his first job.
 - A studied B was studying C used to study
 - 3 Lack of water is a permanent problem in this country. A problem that is always there
 - **B** a problem that is sometimes there C a new problem
 - 4 X: When I was a child, I was in a serious car accident and I spent a month in hospital.
 - Y: What a nightmare!
 - A What a great story!
 - B That sounds frightening!
 - **C** Really? That's cool!
 - 5 My sister got lost in the forest, but, luckily, she managed to phone for help. A suddenly
 - B eventually
 - Cfortunately
 - 6 We analysed the data while we were talking online. A before the online talk **B** after the online talk
 - ©during the online talk
- 6 Choose the correct answer, A, B or C, to complete both sentences.
 - 1 She for her bag and took out the phone. We home late in the afternoon.
 - A asked
 - **B** arrived C reached
 - 2 They haven't published their research ____ yet. How much _____ do we need to print the documents? (A) paper

B report C ink

- 3 The radio has warned of _____ temperatures today. Cook the pasta in water for about 10 minutes. A freezing
- Bboiling
- C high
- 4 I can't believe you've bought a desktop _ To be a _____ scientist you have to be good at maths.
 - A rocket
- (B) computer
- C space _ as they discovered the cave, they started 5 As exploring it.

They reached the top too _ and spent hours waiting for the sunrise.

- (A) soon B early
- C fast

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pp. 211, 272–273

EXTRA ACTIVITIES

• Photocopiable resources 50–51 Gapped sentences (12 min.) pp. 211, 268-269 Photocopiable resources 54–55 Sentence transformation (15 min.)

• Word Practice 1, WORD STORE booklet, p. 4

Review

• Photocopiable resource 12 A new sport (speaking; 13 min.) pp. 203, 224 • Extra digital activities: Reading and Use of English

urpose

NEXT CLASS

- Ask students to do Self-check 2.10,
- WB pp. 30–31, as homework.
- Ask students to prepare for Unit Test
- 2: Assessment Package, Unit 2.

• Ask students to prepare for Review Test 1: Assessment Package, Unit 2.

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- degrees Celsius. 5 What were you doing this time last year?
- 6 I was waiting for the photos from Sandra last night but she didn't send me any.

Exercise 3

crashed

1 My computer

while I was

2 Tom lost his

park.

3 The first

smartphone

when he was

running in the

international

Internet chat took place in

February 1989.

yesterday. The

temperature

rose to 38

4 It was so hot

downloading a song.

READING

7 Read three texts about science and technology. Choose the correct answer, A, B or C.

Underwater forest

Several years ago, scuba diver Chas Broughton discovered an underwater forest of massive ancient cypress trees. Located twenty kilometres from the coast of Alabama, in the Gulf of Mexico, it is home for thousands of sea animals. Chas told a local journalist about the discovery, but they kept it secret until 2004, when Hurricane Ivan uncovered some of the trees. Then scientists started exploring the area.

They have suggested that the forest is more than 50,000 years old. In the past, the ocean level in the area was 125 metres lower than today, but when it rose, the water swallowed the trees up. The forest is so unique that conservationists are now working to make it a marine protected area.

- 1 The scientists
- A found out about the discovery from a local journalist. B started visiting the area after the 2004 hurricane. C are trying to protect the forest.

Your ideas in 3-D

Are you interested in 3-D printing but don't want to buy another expensive gadget?

Then this offer is for you! Our 3-D printing service will help you produce a figure from your favourite video game, parts for a robot you are building in your basement, beautiful jewellery or decorations for your home. Just choose a design from our catalogue or create your own, decide what material, size and colour you want and send your project to us.

We will print the object and send it to you in no time! For more information visit our website at:

www.weprint3d.com

- 2 The advertisement is addressed to people who A want to buy a 3-D printer.
 - B are professional designers.

©want to use 3-D printing technology.

Last week I took part in an unusual survey. A psychologist invited forty-four families and asked us different questions about eating habits now and in the past. She wanted to find out why fathers give children less healthy food than mothers. Strange, isn't it? But it's true in my family.

When my mum isn't at home for dinner, Dad orders a pizza. Mum doesn't accept unhealthy food because she feels responsible for what we eat. Dad cares more about my education or hobbies.

According to the survey, in most families the situation was and is similar. Teenagers observe their parents and learn how to behave in the future. My parents used to observe their parents and now I am observing them.

- 3 The survey the writer took part in shows that
 - Amothers and fathers look after families in different ways.
 - B fathers don't care about families as much as mothers.
 - C teenagers would like to change eating habits in their families.

SPEAKING

- 8 In pairs, complete the questions with one word in each gap. The first letters are given. Then ask and answer the questions.
 - 1 What do you use the Internet for?
 - 2 Do you use social media? Why?/Why not?
 - **3** What invention(s) do you find the most useful? Why?
 - 4 What were you doing **y**esterday at 8 p.m.?



- 9 In pairs, write down five words to describe the photo.
- 10 Imagine you are one of the people in the photo. Answer the questions.
 - 1 When was it?
 - 2 What was the weather like?
 - 3 Who were you with?
 - **4** What were you doing? What happened?
 - 5 How did you feel about it in the end?
- 11 When was the last time you got lost? What happened? Discuss with a partner.

WRITING

12 Read the writing task and write the story.

You agreed to write a story for the Me and Technology section of your school newspaper. The title of your story is: The day technology saved me. Remember to:

- explain when and where the situation happened.
- describe the events and show their sequence using the correct past tenses.
- make the story interesting for the reader.
- give your story an interesting ending.

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2023

PROJECT

How to teach with projects p. T19
Work in groups. Do some research to find out about unusual scientific work or place to do science experiments. Prepare a presentation about it and then present it to your FOR Review Purpose Only class.