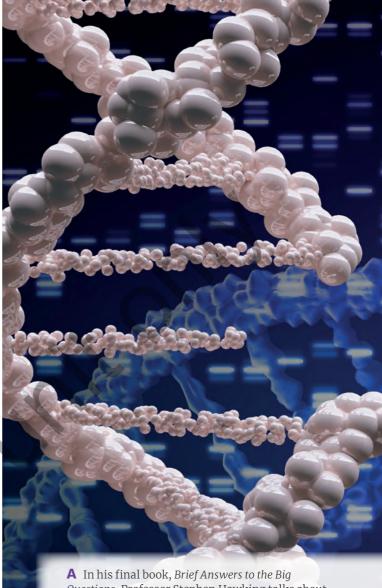
4 Body and soul

Reading and vocabulary

- 1 WHAT DO YOU THINK? Read the pairs of opposite opinions. Which opinion in each pair do you agree with? Give reasons for your answers.
 - 1 a It's dangerous to play around with human genes. We don't know enough about the long-term effects.
 - **b** Unless we experiment with genetic engineering on humans, animals and plants, we won't progress.
 - **2 a** Genetically engineering children so they have no imperfections is the next step in human evolution.
 - **b** Deafness isn't a disability. Using sign language means that you're a member of a linguistic and cultural minority.
- 2 Read the first sentence in each paragraph of the article. What do you think it will be about? Skim the paragraphs and underline the key words.
- 3 Read the article and match the information (1–6) to the paragraph where it is mentioned. Use the key words from exercise 2 to help you.
 - 1 When scientists were first able to modify the human genome.
 - 2 Genes don't tell us what people are capable of.
 - 3 How genetic engineering can cause illness.
 - **4** Genetic conditions are part of our identity.
 - 5 How genetic engineering can help people.
 - 6 How genetic engineering could cause inequality.
- 4 REACT According to the article, what are the pros and cons of genetic engineering? Can you think of any others?

VInsight Verbs and nouns with the same form

- 5 Study the highlighted words in the article. Then complete each pair of sentences with one of the words. What is the difference in meaning?
 - **1 a** Spending hours sitting in front of a computer _____ is not good for your health.
 - **b** Doctors want to _____ children for a gene which could result in blindness.
 - **2 a** Leonardo da Vinci had an amazing ______. He saw things in a different way from other people.
 - **b** I don't ______ if we watch the documentary about CRISPR. It's an interesting subject.
 - **3 a** Genetic engineering could treat some diseases, but it could also ______ others.
 - **b** If you want to support a good ______, donate money to medical research.
 - **4 a** There could be a(n) ______ in attitudes to genetic engineering if it is able to prevent cancer.
 - **b** I want to put my desk under the window. Can you help me ______ it?
 - **5 a** More and more girls are studying STEM subjects, and many are interested in working as a(n) _____.
 - **b** Scientists can ______ the gene so that it provides an immune response to the virus.



Questions, Professor Stephen Hawking talks about the threat of the misuse of genetic engineering. The famous physicist imagines a world where wealthy people use the science to engineer and 'improve' their abilities, creating a race of superhumans, who have more intelligence, more resistance to disease, and who live longer lives. 'Once such superhumans appear, there will be significant political problems with "unimproved humans" who won't be able to compete,' he predicts. 'Presumably, they will die out or become unimportant.' Hawking offers us a frightening vision of the future. But are his fears justified, and should we be worried?

to the year 2000, when a team of international scientists working on the Human Genome Project created the first complete map of human genes. This map helped experts understand how genes make people, and how one small change in our genetic code* can cause disease. The next challenge for scientists was to work out how to repair this genetic code. They did this in 2012, when they developed CRISPR, which was a way to get rid of

B To answer this question, we need to go back

any genes that might cause problems. It was early days, but in theory at least, CRISPR could treat any disease, from arthiritis to Alzheimer's, by removing or replacing part of our genetic code.



people with a disability; it's also been used to treat blood diseases, such as sickle cell anaemia. This ability of genetic engineering to improve people's lives is positive and exciting. However, there is also the worry that this knowledge could be misused in the way that Hawking predicts. In the wrong hands, genetic engineering could be used to create superhumans. Back in Hawking's dystopian future, wealthy parents could 'play god': as well as rejecting embryos* with genetic conditions, such as deafness, short-sightedness or baldness, they could also dictate their children's eye and hair colour, their height and physique. They could make their children smarter, faster and stronger, and could even edit out behaviours such as depression, aggression or addiction. The result would be designer babies with no so-called imperfections.

D In addition to this, there are other drawbacks to bear in mind. Genes have many functions which are not 50 completely understood and engineering them can have unpredictable or even dangerous consequences: healthy genes could be removed by accident, which could result in mutations and cause diseases such as cancer. A recent study analysed data from early gene editing treatments 55 and found that 16% had accidental mutations. It's a

risky business which could have unexpected outcomes.

and in the US, for example, 10% of adults have a genetic condition. We can already screen and reject embryos with genetic problems, but is it ethical to entirely erase them? Maybe there needs to be a shift in attitude to how we define 'disease'. 'I was born with cystic fibrosis,' says

one person, 'and I have learned to live with it – it's not a defect*; it's just part of who I am.'

F Perhaps it could be argued that it's only natural to want the best for our children, and that genetic engineering is evolution and not that different from natural selection. However, Hawking himself had a genetic disease. If his genetic code had been edited or his embryo rejected, we might have lost one of the most brilliant scientific minds of all time. Ultimately, being 'better' at a genetic level doesn't mean you're a better 75 person, that you will have a better life or that you will contribute more to society. Maybe it's safer to celebrate and support diversity rather than trying to edit it out.

Glossary

- * genetic code = the arrangement of genes that controls how each living thing develops
- * embryos = animals in the early stages of development before birth
- * defect = a fault in somebody or something

VInsight Noun suffixes: -ness, -ity, -ion

6 Complete the text with the noun form of the adjectives in brackets.

The question is ...

You may be affected by autism, ¹_____ (bald) or other conditions, such as blindness, but it won't stop you achieving great things.

- British composer Ralph Vaughan Williams lived with
 (depressed) after completing military service in the First World War. He also developed
 (deaf) in his later years, after damaging his hearing during the war. But he still composed beautiful music, and his music is still popular today.
- Vincent van Gogh is famous for his unpredictable behaviour, his ⁵ (aggressive) and his ⁶ (addictive) to the drugs that he took for his illness. But his painting of Dr Paul Gachet, who took care of him in his final years, sold for an amazing \$82.5 million.

The question is: would these people have achieved so much without these so-called 8 (imperfect)?

7 Put the nouns you created for exercise 6 into the correct column.

| -ion | -ness | -ity | |
|------|-------|------|--|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

- 8 TASK Imagine that before you were born, your parents could modify your genes and change your character. Discuss the questions.
 - 1 Which two things would you have liked them to change? To keep the same?
 - 2 What things in your life would be different as a result of these changes?
- **②** Vocabulary extra **〉** Phrases with body parts **〉** page 57
- 🛂 Assess your progress 💎 Workbook page 35

Grammar

used to, get used to, be used to

- 1 WHAT DO YOU THINK? Work in pairs. Look at the photos and discuss the questions.
 - 1 What type of TV programme is being filmed?
 - 2 What role is the actor in the first photo playing?
 - 3 How true to life do you think her role is?





- 2 ♠ 4.1 Listen to an interview with an actor. Check your answers to exercise 1.
- 3 ◀ 9 4.1 Listen again and answer the questions.
 - 1 Where <u>did</u> Ayesha <u>use to work</u>? Does she work there now?
 - 2 <u>Is</u> Ayesha <u>used to seeing</u> accidents? How often does she witness them?
 - **3** Are paramedics used to working long hours? Do they get tired?
 - **4** How did Ayesha react when she saw someone in pain? Does she think she could get used to it?
 - **5** Which adjectives does Ayesha use to describe the paramedics' job? What type of things do they have to get used to?
- 4 REACT Work in groups and discuss the questions.
 - 1 Is it essential for actors to have real-life experience of the roles they play? Why / why not?
 - 2 What programmes do you watch that accurately reflect real life?
 - **3** Do TV writers and producers have a responsibility to accurately reflect real life? Why / why not?

Grammar Insight

- 5 Study the underlined phrases in exercise 3. Match them to categories a-c below. Then answer questions 1 and 2.
 - **a** events or states in the past that no longer happen now
 - **b** something that is part of our life and we are accustomed to
 - **c** something we are becoming accustomed to; it may have seemed strange before, but it's normal now
 - 1 Which phrase(s) can you use to refer to the past, present or future?
 - 2 Which phrase(s) can you only use to refer to the past?
- Further reference and practice > Workbook > page 90

LEARNING OBJECTIVES

| O | C | omplete the sentences with the correct form of used to, get used to of be used to. |
|---|---|--|
| | 1 | Ayesha (not) working long hours. She usually left the TV studio after lunch. |
| | 2 | The job may seem difficult now, but you it in a few weeks' time. |
| | 3 | They retired from their jobs as doctors, but found it difficult to not being busy al |

They retired from their jobs as doctors, but found it difficult to ______ not being busy all day.
We start work at the hospital tomorrow. Our biggest challenge will be getting up early – we

starting college at 10 a.m.

5 | _____ watch *Paramedics* every week, but I never watch it now. It's too predictable.

6 'I can't _____ my new braces. They're really uncomfortable.' 'You need to see the dentist again.'

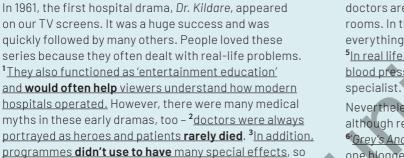
7 When we were children, we _____ climb trees, until I fell and broke my arm!

Grammar

Talking about habitual behaviour

- 7 Do you like watching hospital dramas? What do you think makes a good hospital drama?
- 8 Read the text. Which two hospital dramas does it mention?

Is it like real life?



⁴Nowadays, hospital dramas **are often** more believable, but there are still a few myths. One popular myth is that

operations were talked about rather than filmed.

doctors are always treating patients or in operating rooms. In the successful series *Grey's Anatomy*, doctors do everything from giving injections to performing surgery.

5 In real life, giving a patient an injection or taking their blood pressure is always carried out by a nurse or another specialist

Never theless, millions of people still enjoy *Grey's Anatomy*, although recently some fans have started to complain.

6' Grey's Anatomy used to be my favourite show,' commented one blogger. 'Not any more. ⁷ It's always dealing with the same issues. ⁸ My housemate will sit watching it for hours, but not me.'

Grammar Insight

- **9** Study the underlined sentences in the text. Answer questions 1–3. Then complete rules a-c with used to, would or the past simple.
 - 1 Which four sentences describe habits, repeated actions or states in the past?
 - 2 Which four sentences describe habits, repeated actions or states in the present or future?
 - 3 Which two sentences express irritation or criticism?
 - **a** We use *used to, would* and the past simple to talk about repeated actions and habits in the past. However, we can only use _____ and *would* if they no longer happen now.
 - **b** We cannot use _____ to talk about past states.
 - **c** We use ______to say how long a situation went on for.
- **⊋** Further reference and practice **∑** Workbook **∑** page 90

10 Rewrite the sentences using the words in brackets.

- 1 Daria insists on watching *Grey's Anatomy* even though she's seen it all already. (always)
- 2 When I was studying to be a nurse, I always worked very long hours. (would)
- 3 Most evenings, we don't usually have time to watch TV. (won't)
- 4 A few years ago, I went to the cinema once a week, but I rarely go now. (used to / will)
- **5** A lot of medical dramas often repeat the same storylines. (will)
- 6 In the 1950s, westerns were one of the most successful TV genres. (used)
- 7 I'm not a fan of fantasy series, but my friend will talk about the series *Loki*! (constantly)
- 8 In early science fiction dramas, directors used simple special effects. (would)

11 TASK Work in pairs. Take turns to choose a topic and talk about it.

- 1 Which TV programmes did you use to watch a lot as a child?
- 2 What changes to your everyday routine have you had to get used to in the last five years? Was your new routine easy or difficult to get used to? Why?



Assess your progress
Workbook page 35

Listening, vocabulary and speaking



Listening and vocabulary

1 WHAT DO YOU THINK? Discuss the questions.

- 1 What do you think it is like to live with a loss of limb or a limb difference? What difficulties might people face?
- 2 How might this affect certain activities? In what way?

2 ◀ 9 4.2 Listen to the first part of a radio programme. Are the sentences true (T) or false (F)? Correct the false sentences.

- 1 In 2006, Russell Hodge was driving a car when he had an accident.
- 2 Russell lost one of his legs after the accident.
- **3** Russell chose to forgive the other driver.
- 4 He heard a speaker talking about summer camps for people with missing limbs.
- **5** Amp Camp is only for teenagers.

3 ◆9 4.3 Listen to the second part of the programme. Answer the questions with *Priya* or *Tyler*. Then listen again and write down their exact words.

- 1 Who explains that they lost a limb as the result of a childhood illness?
- 2 Who says Amp Camp helped them feel more confident?
- 3 Who points out that they were unsure about attending the camp at first?
- **4** Who explains that they decided to be a camp leader after attending their first camp?
- 5 Who says that being truly happy is about accepting yourself as you are?

Strategy Active listening (2)

When you listen to a radio programme, a talk or a lecture, or are having a discussion or debate, a good way to check understanding is to repeat or paraphrase what has been said.

4 Read the strategy. Then work in pairs. Paraphrase the ideas in these sentences from the radio programme. Use exercise 3 to help you.

- 1 I run some of the activities and coordinate others. I answer questions. The most important thing I do is listen to what teenagers attending the camp need and share my skills and knowledge with them. I'm here to empower others, adapt and find solutions!
- 2 I lost two fingers in an accident when I was young and my confidence became increasingly low.
- 3 I had been to other summer camps, but I often held back because I felt a bit intimidated by the other young people they could do things more quickly and more easily.
- 4 When you've had an amputation, life has challenges other people our age don't experience physical as well as social. There are also self-esteem issues people don't always get.

5 REACT Discuss the questions.

- 1 Do you or anyone you know have a loss of limb or limb difference? Are your or their experiences similar to Priya's or Tyler's?
- **2** Why do you think confidence and self-esteem are important? What can help to improve them?

VInsight Phrases with mind

6 Match the phrases in italics in the extracts from the radio programme to their meanings below.

- be receptive to other people's ideas or opinions be unable to decide about something
- become crazy or very worried decide decide something different remember
- speak to someone angrily because of something they have done
- stop somebody thinking about something unpleasant
- 1 A passer-by ... kept talking to him to take his mind off the pain
- 2 I would probably have gone out of my mind.
- **3** Most people in Russell's situation would want to *give* the other driver *a piece of their mind*
- **4** He hasn't *changed his mind* about riding his motorbike
- 5 I made up my mind I wanted to be a leader one day.
- **6** The first time I went to Amp Camp, I was in two minds about it
- 7 I'd say just try to have an open mind
- $f 8 \ \dots$ always bear in mind that real self-confidence and real happiness only come from \dots

| 7 | Complete the sentences with the correct form of the phrases in exercis | e 6. |
|---|--|------|
|---|--|------|

| 1 | Stella often goes for a run to | her exams. |
|---|---------------------------------|--|
| 2 | My mum and dad will | if I get home late again. |
| 3 | Don't spend all your money at o | once! it has to last you all month. |
| 4 | I can't | whether to have the chicken or the fish. What do you recommend? |
| 5 | It's good to | , especially when you're meeting new people or going to new places. |
| 6 | Sorry, but we're not going to | about the party. We don't want to go. |
| 7 | You must | about taking the job. It'll be a great experience, but you'll have less free time. |
| 8 | My sister will | when I get home if I don't ring her now. |

8 TASK How important is it to have an open mind? Can you think of any situations where this has helped you? Discuss in groups.

Speaking

Bringing up a sensitive issue

- 9 Work in pairs and discuss the questions.
 - 1 When was the last time you brought up a sensitive issue with someone? Who was it and what was the situation?
 - 2 When was the last time someone brought up a sensitive issue with you? Who was it and what was the situation? How did you feel?
- 10 ◀ 9 4.4 Listen to Frida and Vince. Who brings up the sensitive issue, Frida or Vince? What help and support do they offer?
- 11 4.4 Complete the phrases from the dialogue. Then listen again and check.

| A Bringing up a sensitive issue | B Encouraging someone to talk about their feelings |
|--|--|
| I noticed you haven't been quite ¹ lately. Are you OK? Is everything OK? You seem a bit down. | Do you want to ² about it? Why don't you tell me how you're feeling? Is there anything else ³ you? |
| C Showing understanding | D Offering help or support |
| I'm ⁴ to hear that. I ⁵ especially about I ⁶ how you feel | I'm ⁷ if you want to talk. You know you can talk to me ⁸ |

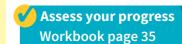
12 ◆ 3 4.5 Listen to Amira and Thomas. Tick the phrases that you hear. Who says them? Then match all the phrases to categories A–D in exercise 11.

- Can I do anything?
 Do you feel like telling me a bit more?
 Do you want me to come over now?
 How are you doing?
 How can I make things better for you?
 I get it.
- I know what you're going through. I understand. Is there a problem?
- What can I do to help you? Would it help to talk about it? You seem a bit sad.

GS Global skills Expressing empathy

When other people are having problems or a hard time, it's important to show empathy. You can do this by using words and phrases like that's tough, that's a shame and I see, to show you are listening carefully and understand what they are going through.

- 13 Why is it important to show empathy? How can you do this using body language?
- 14 TASK Work in pairs. Imagine that you are in one of the situations below. Student A, you want to find out what is troubling your friend. Encourage them to talk and try to show understanding. Use phrases from exercises 11 and 12. Student B, answer Student A's questions. Then swap roles and role play the other situation.
 - 1 You're really struggling to keep up in your maths lessons. It's taking ages to do your homework and you're getting very poor marks.
- 2 One of your best friends seems very distant and is not interested in doing anything with you. You're worried that you have done something to upset them or perhaps they might be ill or suffering from depression.



Reading and vocabulary

- 1 WHAT DO YOU THINK? What qualities make us human? Which three of the qualities below are the most important ones? Why?
 - ambition compassion courage creativity
 - determination honesty morality patience
 - self-discipline vision
- 2 Read extracts A and B and decide which qualities from exercise 1 Dr Frankenstein has.
- 3 Read extract A again. Are the statements true (T), false (F) or not given (NG)?
 - 1 Frankenstein warns against the misuse of knowledge.
 - 2 People feared the changes that the Industrial Revolution would cause.
 - **3** Mary was very well-known when she wrote the story.
 - 4 Initially, the novel was unpopular because it was so shocking.
 - **5** Mary had a similar character to her mother.
 - 6 Mary's husband suggested she should write the story.
 - 7 After finishing her novel, Mary wrote romantic poetry.
 - 8 Frankenstein was the last book that Mary wrote.

V Insight Word analysis

- 4 Answer the questions, referring closely to extract B.
 - 1 What adjectives and adverbs does the writer use to describe the setting? What atmosphere does this create?
 - 2 Which words does the writer use to describe Dr Frankenstein's a) physical state and b) mental state? How does the weather reflect this?
 - 3 In line 7 of the extract, Frankenstein says, 'my candle was nearly burnt out, when by the failing light, I saw the dull yellow eye of the creature open'. What do you think light represents? What might this tell us about the writer's opinion of Frankenstein's experiment?
 - **4** Find five names that Frankenstein gives to his creation. Does he consider him human? (Clue: look at the pronouns he uses, too.)
 - **5** What adjectives does he use to describe the creature's eyes, teeth, hair and his skin or complexion? What impression does this create?
 - **6** Frankenstein's monster is his 'child'. Can you find evidence in the extract that the creature is behaving like a child?

GS Global skills Culture

- 5 Discuss the questions.
 - 1 Monsters in popular culture often serve as a warning and reflect the concerns of people at the time. In what ways did Frankenstein's monster reflect society's fears? To what extent is the warning relevant today?
 - 2 Think of other monsters in popular culture. What do they say about the concerns of people at the time they were created?

 (A)

Frankenstein



On a stormy, windswept night in 1815, an 18-year-old girl had a vivid nightmare. The singhtmare was dreadful and deeply distressing, but it gave her an idea

- for a tale ¹a tale that would become the most recognized horror story in the world: the story of Frankenstein's monster.
- The novel recounts the story of an ambitious young scientist, Dr Frankenstein, who uses his
- 15 knowledge to bring an inanimate body to life, but then rejects the shocking 'monster' he creates. At the time of writing, the story was a powerful warning against scientific advances and ²the Industrial Revolution, which was about to spread
- 20 across Europe. Many artists and writers were concerned about this industrialization and ³the effect it would have on humans' relationship with nature. They saw danger in the new scientific advances and a worrying desire to 'play God'.
- The author of *Frankenstein* was called Mary Shelley (1797–1851), and for many it was hard to believe that a young girl could write such a shocking story. But Mary was no ordinary 18-year-old. Her father, William Godwin, was a
- well-known philosopher and novelist, and her mother, Mary Wollstonecraft, was a famous feminist. Unfortunately for Mary, her mother died shortly after she was born, but Mary inherited her rebellious spirit. At 16, she secretly ran away
- 35 to France and then to Switzerland with the writer Percy Shelley, who was later to achieve fame as a romantic poet. In Switzerland, the couple stayed with the poet Lord Byron, and in the evenings, they often entertained themselves by reading
- 40 ghost stories. After a while, Byron suggested they write their own, and ⁴Mary decided she was going to write about her nightmare.
 - Mary's life with Percy was passionate and brief. When he died in 1822, Mary returned to England
- with her son and continued writing until her death in 1851. But *Frankenstein* lived on and almost
 200 years later, it's still influencing and inspiring contemporary popular culture.

R

Chapter 5

It was on a dreary night in November that I completed my work. With an anxiety that almost amounted to agony, I collected the instruments of life around me so that I might inject a spark of being into the lifeless

- thing that lay at my feet. It was already one in the morning; the rain fell dismally against the window panes, and my candle was nearly burnt out, when, by the failing light, I saw the dull yellow eye of the creature open; it breathed hard, and then suddenly
- this catastrophe, or how to describe my emotions at this catastrophe, or how to describe the terrible wretch. I had tried to create? His limbs were in proportion, and I had selected his features as beautiful. Beautiful! Great. God! His yellow skin hardly covered the muscles and
- 15 arteries beneath; his hair was black and flowing; his teeth were pearly white and formed a horrid contrast with his watery eyes, his shrivelled face and straight black lips. I had worked hard for nearly two years, for the only purpose of breathing life into an inanimate
- 20 body. For this I had deprived myself of rest and health, but now that I had finished, the beauty of the dream vanished, and breathless horror and disgust filled my heart. Unable to endure the appearance of the being I had created, I rushed out of the room and spent a long
- 25 time pacing around my bed-chamber, unable to sleep. After a while tiredness overtook me, and I threw myself on the bed in my clothes, trying to find a few moments of forgetfulness. But it was in vain; I slept, indeed, but I was disturbed by the wildest dreams. [...] Suddenly,
- 30 I woke up, filled with horror; a cold sweat covered my forehead, my teeth chattered, and every limb was tense; when, by the dim and yellow light of the moon, I saw the wretch, the miserable monster whom I had created. He held up the curtain of the bed; and his eyes were
- inarticulate sounds, while a grin wrinkled his cheeks.

 He might have spoken, but I did not hear; one hand was stretched out, as if to keep me there, but I escaped and rushed downstairs. I hid in the courtyard belonging to
- the house which I inhabited, where I remained during the rest of the night, listening carefully, fearing each sound as if it were the approach of the monster to which I had so miserably given life.



Adapted from Mary Shelley's Frankenstein

Grammar

Future in the past

Grammar Insight

6 Read the information below. Then study underlined sentences 1-4 in extract A and answer the questions.

We use the future in the past to talk about future events from a point of view in the past.

Which sentences are examples of:

- **a** a future plan or intention? (1 sentence)
- **b** an event that is in the very distant future or would last a long time? (2 sentences)
- **c** an event that is in the very near future? (1 sentence)
- Further reference and practice. ➤ Workbook ➤ page 91

7 Complete the text with the phrases below.

- was going to become was not about to
- was to emerge were to become would be
- would be adapted would go on

MONSTERS IN FICTION

Dracula

When Bram Stoker wrote Dracula in 1897, he had no idea that the main character, Count Dracula, _ one of the most popular monsters of all time. His book 2. for film over 30 times, and its characters to make thousands of appearances in books, comics, video games and films. When it was published, Stoker's mother predicted it a big financial success. Sadly, it wasn't until after Stoker died that the novel started making money. Still, Dracula 5_ as one of the most famous gothic villains of all time. Bats 6 the symbol of Dracula, as he was the first vampire to transform into one. That said, a more recent story described a different type of vampire. When Stephanie Meyer created Edward Cullen for the Twilight Saga, she decided that her handsome protagonist ⁷_ sleep in a coffin, only come out at night or turn into a small flying mammal. If he had, it would have been hard for Bella Swan to fall in love with him!

8 TASK Discuss the questions.

- 1 Think about when you were a child. Did you dream about what you were going to be when you were grown up? Have any of these dreams changed?
- 2 Think about the last book you read or film you saw. How did it end? Did you guess it would end this way?
- **3** Think about yesterday. Was there anything you were about to do, but didn't? Why didn't you do it?

೨ Vocabulary extra > Body parts > page 57

Assess your progress

Workbook page 35

Planning for writing

1 Read the headline and an extract from a newspaper article. What is the issue? How do you think you would feel if you were a local resident? Imagine you were going to write an email to the editor of the newspaper about the article. What points might you include? Brainstorm in pairs.

Gym equipment removed

The council has taken the decision to remove the outdoor gym equipment in Temple Park. The equipment was installed five years ago as part of the Friendly Parks for All programme, which aims to make parks accessible for all. It is free to use and is suitable for both able-bodied users and those with mobility problems. However, as a result of budget cuts, the council say it can no longer fund and maintain the equipment. Recently, thousands of pounds worth of damage was caused to the equipment after a scooter was set on fire by vandals, and the council say they don't have the funds to replace it. Local residents are upset by the decision.



- 2 Read the model email on page 55 reacting to the newspaper article. Does the writer mention any of the points you discussed in exercise 1?
- 3 Read the strategy. Then read the model email again and answer the questions.
 - 1 What is the writer's point of view?
 - 2 What are their two main ideas?
 - 3 What arguments and examples do they use to support these ideas?
 - **4** What solutions do they suggest?

Strategy Taking a view and supporting your arguments

When you are asked to react to an issue:

- **a** first decide on your point of view. What do you think is the solution to the problem? If a solution is offered, do you agree or disagree with it? What would you suggest instead?
- **b** note down two or three main ideas that illustrate your point of view. Support your ideas with arguments or examples that will convince the reader.
- 4 Read the statement and ideas a-g below. Tick the ideas that support the argument.

People are not always entirely responsible for their actions.

| a | People's circumstances can result in them making different choices. |
|-----|---|
| b 🗌 | Younger people might be pressurized by friends. |
| c | Genetics can lead to different lifestyle choices. |
| d [| If gym prices increase, people stop going. |
| e 🗌 | Stress or illness often affect the way people make decisions. |
| f | Gym culture means we are healthier and fitter. |
| g | Advertising influences us to buy certain products. |

Writing Insight Addition and contrast

- 5 Study the highlighted words and phrases in the model email. Which are used to add ideas and which to contrast ideas? What structures follow them? Complete the language boxes.
- 6 Rewrite the sentences using the words in brackets.
 - 1 Some celebrities are bad role models, but they are still very popular. (in spite of)
 - 2 The main issue isn't about keeping fit; it's about not having to pay for it. (less about ... more about)
 - 3 I understand your reasons for being vegan, although I don't agree with them. (while)
 - A land state your reasons for being vegan, at most reasons are the reasons for being vegan, at most reasons are the reasons for being vegan, at most reasons are the reasons are the reasons for being vegan, at most reasons are the reason
 - **4** Advances in medicine mean we are all healthier and we can live longer. (moreover)
 - 5 Smoking has a bad effect on your health and makes you age more quickly. (besides, too)
 - 6 Doing exercise can improve self-esteem, so it's good for both the mind and the body. (as well)
 7 Despite the good against the good against the good and interest the good for both the mind and the body. (as well)
 - 7 Despite the cost, society has a moral obligation to provide free healthcare. (no matter what)
 - 8 Hospital dramas aren't very realistic, but I still enjoy watching them. (even though)

Paragraph 1: introduce

your reason for writing.

Mention your personal

Paragraph 2: present

supporting arguments

Paragraph 3: present

your second idea, with

supporting arguments

and examples.

Paragraph 4: offer

some suggestions.

Paragraph 5: conclude

the email and sum up

your point of view.

your first idea, with

and examples.

situation if relevant.

From: needra@templeresidents.com

To: editor@newsdesk.centernews.org

Subject: Temple Park gym equipment

Dear Editor,

I am writing to express my views on the removal of the gym equipment in Temple Park reported in your newspaper last week. As a local student with little money, and also a wheelchair user, I am strongly against this decision.

Firstly, this equipment provides an opportunity for many people to lead a more active and healthy lifestyle. While there are plenty of private gyms in the local area, membership is too expensive for students like me and other people on low incomes. I used the equipment at least three times a week on the way home from college, and it was a cheap and easy way to keep physically fit. Furthermore, it was a way for me to manage stress during exam times. It is well-known that exercise can reduce stress hormones and help us feel more relaxed.

Secondly, this equipment was very important for people with mobility problems. Even though many gyms these days are trying to be more accessible, with wider entrances, special toilets and shower facilities, as well as ramps and lifts, it is generally much easier for us to use outside gym equipment. Moreover, it is more enjoyable to exercise outdoors, especially if you have spent the day working or studying indoors. In addition, it is good for everyone to have some exposure to sunlight to maintain our levels of vitamin D.

I believe that there are ways the council could find money to pay for the maintenance of the equipment – for example, by charging for the car park in the park or by asking local businesses to sponsor the equipment. This would be a good way to fund the outdoor gym and get businesses more involved in the local community, too.

In conclusion, I believe the local council has a duty and an obligation to provide equipment like this for everyone, no matter what their situation. Ultimately, this issue is less about people's health and well-being and more about money and budgets. To deny people free access to equipment like this is unfair.

I look forward to hearing the views of your other readers.

Yours faithfully,

Needra Rashid

Addition

Use words and phrases like besides, also, 1_ well, 2 and 5 __ to add

information or ideas.

Contrast

Use words and phrases like although, . in spite of, despite, however, whereas. and is 9 _about and 10____ contrast ideas

Writing your email

Read the extract from a newspaper article and write an email to the editor of the newspaper about it.

Is exercise becoming an unhealthy obsession?

The gym has become the latest cool hang-out for young people. Many teens are asking for gym memberships for birthday presents and spending their pocket money on protein supplements. A recent survey showed that 42% of 16-24-year-olds have consumed a sports nutrition product in the last three months. And it seems that this might be partly a result of the huge number of fitness 'influencers' on social media. But are these images of perfect bodies making teenagers obsessed with workout routines and diet plans? Is it healthy to be so obsessed with getting fit?

PLAN Read the task and check you understand it.

Make notes about:

- vour point of view.
- your main ideas and supporting arguments / examples.
- any solutions you have.

Think about words and phrases you can use to add and contrast ideas. Create a plan for your email. Organize your notes into four paragraphs. Use the organization boxes to help you.

- **WRITE** Write a first draft of your email. Use the model email and your notes to help you.
- REVIEW Check your email. Use the checklist to help you.

Have you:

- stated your point of view?
- used supporting arguments and examples?
- offered some solutions?
- used words and phrases to add or contrast ideas?
- checked your spelling, grammar and punctuation?
- **Assess your progress**

Workbook page 35

Vocabulary

| Ċ | or a | another. | apporting one |
|---|---------------------------|--------------------|---------------------------|
| | b The recent her | | many |
| | healthcare fac | cilities to close. | , |
| 2 | a They're sendir | ng a(n) | to fix the Wi-Fi. |
| | | | erviews so that his son |
| | got the job. | | |
| 3 | a My little sister | has a lively and | enquiring |
| | b Idon't | what's for c | linner. |
| 4 | | | a bigger |
| | | | ents for every disease. |
| 5 | a Can you help r | | |
| | | in put | olic opinion because of |
| | the scandal. | | |
| | | | Marks/5 |
| W | rite the noun for | ms of the adie | rtives |
| 1 | | - | |
| _ | bald – | 5 | disabled – imperfect – |
| 3 | deaf – | | aggressive – |
| 3 | <u></u> | | Marks/ 6 |
| | | | • |
| | | ences with a p | hrase containing the |
| | ord in brackets. | | |
| 1 | I'm so mad at her | | e her, I'm going to |
| | | | |
| 2 | There are a few in | | s that you should |
| | | (bear). | |
| | • | | (out) with worry. |
| 4 | When I'm stresse | _ | |
| | | (take) r | |
| 5 | | | (up) yet about what |
| | you want for dinn | | |
| 6 | | | (open) until you've |
| _ | heard all of the fa | | |
| 7 | | | 's decided something, |
| | she never | | (her). |
| | | | Marks/7 |
| C | omplete the text | with the word | s below. |
| _ | | | |
| | | ng lifeless | pearly ■ shrivelled |
| | watery | | |
| | | | |
| | A prince travelling | g through the la | and came across Snow |
| | | - | ne coffin ¹ , |
| | | | |
| | and with great sa | | , , |
| | the impression th | at the girl had, | indeed, passed away, |
| | but her complexic | on was by no me | eans ³ The |
| | _ | • | as he contemplated |
| | - | | hair framed a still |
| | • | | |
| | pretty face, and h | _ | |
| | showing her 6 | white te | eth. Suddenly, the |
| | prince realized th | at he was fallin | g in love. |
| | | | |
| | | | |
| | | | Marks / 6 |

1 Complete the pairs of sentences with the same word.

1 a At my school, we are always supporting one

Grammar

5 Choose the correct words. Sometimes both are possible.

Today, visiting a dentist 'is usually / used to be a relatively painless experience, but this has not always been the case. In the Indus Valley Civilization of 7000 BC, people 'used to treat / would treat tooth problems with primitive tools like drills. Moving forward into 5000 BC, the Sumerians 'would think / used to think that dental issues were caused by worms. The ancient Greeks 'often extracted / would extract teeth to keep tooth pain away and this method continued until the Middle Ages. During this period, dentists 'wouldn't exist / didn't exist, so barbers did the extractions. Modern dentistry 'started / used to start somewhere between 1650 and 1800. The French physician Philippe Fauchard was behind many of the procedures that you 'will see / often see in dental surgeries today.

| | Fauchard was behind many of the procedures that you ⁷ will see / often see in dental surgeries today. | | |
|---|--|---|--|
| | | Marks/7 | |
| 6 | to | omplete the sentences with the correct form of used on, be used to or get used to and the verbs in brackets. I go to the gym every day, so I | |
| | | (do) exercise. | |
| | | If you want to lose weight, then you'll have to (eat) less. | |
| | 3 | When we were children, we | |
| | | (spend) all day outside. | |
| | 4 | Max has very fair skin, so he | |
| | _ | (not sit) in the sun. | |
| | | Our classes start at 8.00, so we | |
| | 6 | (get up) early. We (have) a house on the | |
| | 0 | beach when we lived in Spain. | |
| | 7 | I (not enjoy) eating vegetables, | |
| | | but now I love them. | |
| | 8 | People who can't (wear) | |
| | | contact lenses usually go back to glasses. | |
| | | Marks/8 | |
| 7 | Cd | omplete the sentences about the future in the past. | |
| _ | | se no more than three words, including the word in | |
| | | rackets. | |
| | 1 | Xavier was nervous because he | |
| | | have an operation. (about) | |
| | | The scientist never imagined that his experiment work. (going) | |
| | 3 | She didn't know that shestay in hospital | |
| | | overnight. (need) | |
| | 4 | Alexander Fleming's discovery of penicillin millions of lives. (save) | |
| | 5 | They thought that they have | |
| | | a baby boy, but in the end, it was a girl. (were) | |
| | 6 | We didn't realize that we access | |
| | | to medical treatment while we were away. (not have) | |
| | | Marks/6 | |
| | | Total/ 45 | |

Phrases with body parts

1 Match the idioms in italics to definitions a-j.

- 1 When her fiancé called of the engagement, it really broke her heart.
- 2 If the technology was to *get into the wrong hands*, it could be very dangerous.
- **3** I tried to convince him that it was a bad idea, but he *dug his heels* in.
- **4** When the teacher gave her some extra time to complete the assignment, it was *a weight off her shoulders*.
- 5 They didn't see eye to eye on the subject of genetic engineering.
- **6** There is definitely *more* to the idea *than meets the eye*.
- 7 I've been *tearing my hair out* all morning trying to find the error.
- **8** His knowledge about the technology was *head and shoulders above* other scientists'.
- **9** I can't remember the details right now. I don't have the information *at hand*.
- **10** Don't believe him. He's just *pulling your leg*.
- a agree or have the same ideas
- **b** refuse to change your mind about something
- **c** become available to the wrong person or people
- **d** something is more complicated or interesting than it seems at first
- e something you no longer have to worry about
- f deeply hurt or upset someone
- g be extremely worried and agitated about something
- h much better than somebody or something else
- i tease or joke with someone
- j nearby or easily accessible

2 Complete the sentences with the correct form of the phrases in exercise 1.

| 1 | lt | to see how the parents of |
|---|-----------------------------|---------------------------|
| | children with cancer suffer | |

2 They will win the competition easily. Their invention is _____above all the others.

3 This is a very complex issue. There is ______ to it than _____.

4 Thank you for helping me out with this project. It's a big

5 We've been trying to decide what to do for the best.

6 I'm always arguing with my brother. We never _____ on anything these days.

7 The rest of us wanted to go by train, but she _____ and insisted we go by car.

8 Keep the documents safe. I don't want this information to ______.

9 Stop ______. I know you haven't won an Olympic medal!

10 Do you have that article you were telling me about ______? I'd like to read it.

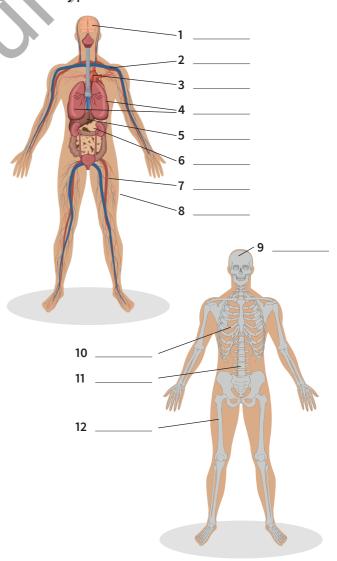
3 SPEAKING Take turns to explain the meaning of a phrase from exercise 1 in your own words. Your partner guesses the phrase. Then write sentences using the phrases and compare them with your partner's.

Body parts

1 Match the body parts below to definitions 1–12.

- artery (thigh) bone brain heart liver
 lungs ribs skin skull spine stomach
 vein
- 1 the organ inside your chest that sends blood around your body
- 2 one of the hard parts inside the body that make up its frame
- 3 the part of your body that cleans your blood
- 4 a tube which takes blood from the heart to other parts of the body
- 5 the curved bones that go around your chest
- 6 the organs inside your chest that are used for breathing
- 7 the row of bones that are connected together down the middle of your back
- 8 a tube that takes blood from all parts of your body to your heart
- 9 the bone structure of the head
- 10 the part of your body that controls your thoughts, feelings and movement
- 11 the organ where food goes when you have eaten it
- 12 the natural outer layer that covers the body

2 Label body parts 1-12 with the words in exercise 1.



Listening

- 1 ■9 4.6 Listen to Anya and Syed talking about exercise. Match Anya (A), Syed (S) or both (B) to opinions 1–6.
 - 1 Looking at things around us can have a negative impact on achieving our exercise goals.
 - 2 Some people are just fitter and stronger than others and this helps their performance.
 - **3** There is a close connection between people's visual and mental focus.
 - 4 It's not possible to maintain a narrow visual focus for the length of a run.
 - **5** We can't change our perception of exercise by narrowing our visual focus.
 - **6** Your mind is as important as your body when you're doing exercise.

Speaking

- 2 Work in pairs. Take turns to answer the questions.
 - 1 How do you feel about exercise?
 - 2 Do you think it's important to exercise? Why / why not?
 - **3** Do you think doing exercise can have a positive impact on your mind as well as your body?
 - **4** What could you do each day to exercise without going to a gym or playing sport?
 - 5 What are the best ways to get fit in summer / winter?

Reading

- 3 Read the article and match sentences a-g to gaps 1-6 in the article. There is one sentence that you do not need.
 - **a** This is not an easy task since the remains are usually found in remote places and are very fragile.
 - **b** The results of such incredible research will help contribute to forming a better picture of the lives of the two cubs.
 - **c** At first, researchers thought the cubs were siblings.
 - **d** One of the most iconic features of African lions, their mane, seems to be missing on cave lions.
 - **e** However, a few years ago, some parts of this layer did not freeze at all, so the permafrost was exposed to even warmer temperatures than usual.
 - **f** The cub, whom scientists have named Sparta, was a female and she was between one and two months old when she died.
 - **g** In Yakutsk, the world's coldest and largest city built on permafrost, the Mammoth Museum specializes in ancient specimens and researchers there are informed by tusk hunters when they find anything of interest.
- 4 Read the article again and answer the questions.
 - 1 What is the main purpose of the article?
 - 2 What is the author's view on scientists and researchers working with tusk hunters?
- **♦** Literature Insight 2 > Workbook > page 106

EVENTS DONATIONS PROJECTS HELP



The ice in Siberia is melting rapidly as a result of climate change and global warming. Parts of it are warming twice as fast as the rest of the planet. The permafrost – soil that remains frozen year-round –

is usually protected by dirt on the surface that thaws in summer and then freezes again in winter.
 This means that in this part of the world, where temperatures are regularly below -30°C, the

bodies of more and more animals, like mammoths

- that died out 10,000 years ago, are being found as well other things like tusks. Hunting and selling mammoth tusks is legal in some parts of Russia with a licence, and the number of tusk hunters in Siberia is increasing because of an increase in
- demand for mammoth tusks. Trade in mammoth tusks is controversial they are sought after by ivory traders as an alternative to elephants' tusks. It is often tusk hunters who find these hidden secrets below the ground. Over the last few years, scientists
 and researchers have been developing working relationships with the tusk hunters so that they can
 - Once an animal, or part of one, has been found, it is transported to the enormous freezer a cryobank –

use the bodies and remains for research. 2_

25 in the Mammoth Museum, where it is stored. 3_____ The contents of the cryobank here provide scientists with the opportunity to study tissues and cells that are thousands of years old, but are in almost perfect



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condition. At least 80% of the world's 30 known mammoth remains are believed to be in Yakutia, and DNA samples have been taken from a wolf, a mammoth, a fox and a 42,000-year-old horse.

A few years ago, the bodies of two lion cubs 35 were found by tusk hunters in Siberia. One of the cubs was in almost perfect condition and it has been called 'the best-preserved ice age animal ever found'. 4____ Researchers are unsure how she met her end, but scans

- 40 have shown damage to her skull and ribs as well as other bone damage. Sparta is 28,000 years old – her golden fur is muddy in places, but otherwise it is undamaged. Her teeth, skin, soft tissue and organs are all
- 45 complete but mummified, and her claws are still sharp enough to scratch. 5 However, after examining them more carefully, tests revealed that the second cub, Boris, was 43,448 years old - almost 15,000 years
- 50 older than Sparta. Scientists have also established that there was no evidence of either cub being killed by another animal, but there is speculation that they may have fallen or become trapped.
- 55 Like other specimens in the cryobank, samples of fur and tissue from Sparta and Boris, and the content of their stomachs will be tested using different genetic techniques. 6____ It will also hopefully
- 60 lead to a better understanding of the diet, habitat, population size and the unique genetic features not only of Sparta and Boris, but also of other extinct animals like mammoths, woolly rhinos and cave bears.
- 65 Surely, that can only be a good thing.

Grammar and vocabulary

Choose the correct answers.



Behind the scenes

When you're watching a medical drama on TV, have you ever wondered how they create the injuries and what you see on screen? Well, it's the work of 1_ make-up and practical effects artists. During surgery scenes in ²____ medical dramas like *House* or ER, these artists have the ³_____ for delivering prosthetics, make-up and digital make-up effects. Realistic model bodies are built for each episode that

look and feel like the real thing. Imagine 4____ a chest on screen: it needs 5 and fall as it breathes and the heart inside does its job. Getting to that level of realism involves 6____ research of real body parts and injuries. The internet is a great source of information as are expert medical advisors who are always there to ⁷_____, offer advice and test things out. For things like bruises or stitches, artists 8 sculpt or paint from reference photos. Real doctors then give feedback and approve the effects or not. Helping create something authentic is the most important thing for special effects artists and they take advantage of sculptors, lighting, camera operators and actors to help them. So, next time you're watching your favourite medical drama, remember 9_____ a little more closely! You 10 ____ be surprised at what you see!

- **1 a** a
- **2 a** well-documented
- **3 a** responsibility
- **4 a** to see
- 5 a rising
- 6 a a lot of
- **7 a** help out
- 8 a are used to
- 9 a to look
- **10** a are

- **b** the
- **b** well-known
- **b** respect
- **b** seeing
- **b** rise
- **b** many
- **b** optout
- **b** would
- **b** looking
- **b** might

- **c**
 - c well-earned
- **c** knowledge
- **c** see
- c to rise
- **c** several **c** clear out
- c will
- c look c are going

Writing

- 6 Read the comment below from a newspaper article about tusk hunting. Then write an email to the editor expressing your views. Include this information:
 - your reason for writing.
 - two main ideas with supporting arguments and examples.
 - a conclusion and your point of view.

Tusk hunting should be legal everywhere. As long as the hunters continue to share their finds with scientists and researchers, there can only be benefits for both. We could learn a lot more about our past through the research that can be done, which will help in the future.

✓ Share

- - 1 WHAT DO YOU THINK? Which of these statements best describes your attitude to making mistakes? Why?
 - 1 'I hate making mistakes and usually try to avoid situations where I might get something wrong.'
 - 2 'I try to see my mistakes in a positive way and treat them as useful learning opportunities.'
 - Work in pairs. Read the description of a talk about making mistakes. Discuss what the benefits might be of overcoming the fear of making mistakes.



- 3 ◀》9.5 Listen to the first part of the talk. Does it mention any of your ideas from exercise 1?
- 4 9.5 What four reasons does the speaker give to support her argument? Listen again and make notes.
- 5 You are going to listen to the next part of the talk. Read the posts on the right. Which of the reactions do you think the speaker will say is the best way of learning from mistakes?
- 6 9.6 Listen and check your ideas.
- 7 9.6 Listen again. Are the sentences true (T) or false (F)? Correct the false sentences. Do you agree with the speaker's ideas? Why / why not?
 - 1 There isn't much we can do to change the way we react after we've made a mistake.
 - 2 Students who learn effectively from their mistakes don't feel bad about getting things wrong.
 - 3 Ignoring a mistake isn't a good strategy if you want to learn from it.
- 8 Work in pairs. Think of a time when you made a mistake in your schoolwork, in your personal life or in another situation. Discuss the questions.
 - 1 How did you react to your mistake at the time?
 - 2 How do you feel about the situation now?
 - 3 Did you learn anything useful from the experience?

What do you do when you make a mistake in your schoolwork?

Comments (3) V

Add a comment



LightAnna

I usually feel so embarrassed that I wish I could disappear. l absolutely hate getting things wrong, especially if it's in a subject that I'm supposed to be good at.





I feel a bit annoyed with myself at first. Then I go over what I did wrong and try to think logically about how to avoid making the same mistake again.





ItsMe

I just try to forget about it and focus on something else. There's no point worrying about mistakes after you've made them.



9 ◀》9.7 Listen and complete the extracts from the talk with phrasal verbs. Then match the phrasal verbs to definitions a-h.

- 1 We all _ _sometimes making mistakes is a universal human experience.
- 2 When we get something wrong, most of us tend to _____ about it.
- 3 That way, we become less afraid of _ challenging situations.
- 4 So, if we're too scared to get anything wrong, we're going to _ really valuable learning opportunities.
- 5 The first type of reaction is to avoid thinking about the mistake or _
- 6 In other cases, they may lose concentration or simply __ ____ and focus on another activity.
- **7** Then they __ _the mistake and try to work out what they should have done instead.
- 8 Dealing with mistakes effectively is about accepting these negative feelings and learning _them quickly.
- a get over / recover from
- **b** feel angry / annoyed with ourselves
- c admit to / take responsibility for
- **d** fail to benefit from
- e examine carefully
- **f** get something wrong
- g start doing / thinking about something new
- **h** be faced with

10 Work in pairs and discuss the questions.

- 1 What kinds of negative thoughts might a person experience after making a mistake?
- 2 What can people do to challenge these kinds of thoughts and make themselves feel better?
- 11 Read the tips on the right and compare them with your ideas from exercise 10. Which tip is the most useful for you?

Dealing with negative thoughts

It's normal to experience negative thoughts after making a mistake, but with practice, we can learn to take control of these thoughts and stop them damaging our confidence, motivation and mental well-being.

- **Pay attention to your inner voice.** Notice when this voice has become self-critical and instead, try to be kind and understanding to yourself. Treat yourself with the same compassion you would show towards
- Remember that everyone makes mistakes. Every person on the planet makes mistakes (even if they don't always tell us about them). It's a natural part of learning - and of being human.
- ▶ Allow yourself to feel what you feel. It's OK to feel a bit upset or disappointed at first. But try not to let these feelings control you.
- ▶ **Don't let the experience define you.** Getting one thing wrong doesn't make you a bad student or a less valuable person. Remind yourself of all the times you've succeeded and got things right.
- Focus on what you can control. You can't change the past, but you can control the way you deal with future challenges. What can you learn from this experience that will help you succeed next time?
- 12 PROJECT Work in pairs or small groups. Follow the instructions to create a classroom poster giving advice to students on learning from mistakes.
 - Discuss these questions. You could do some research online to help you think of ideas. Then agree on around five tips to include on your poster.
 - How can making mistakes be beneficial?
 - What will you try to remember next time you make a mistake?
 - How can you react 'well' to making a mistake?
 - What can you do to overcome negative thoughts after making a mistake?
 - **2** Design your poster, thinking about the title, layout and any images or graphics you want to include. Then write the text for your poster.
 - 3 Display your poster and give other groups feedback on theirs. Which tip did you find the most useful?

Workbook page 128 Assess your progress

Video Learning from mistakes



Watch the video to find out how Harry, Ruaridh and Aimee help Gracie deal with a mistake she has made.