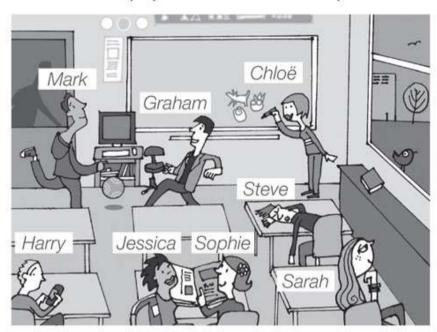
SCIENCE COUNTS

GRAMMAR

Past simple vs. past continuous (review) SB p.76

1 * Look at the picture. Complete the sentences with the past continuous form of the verbs in the list.

send | look | play | read | draw | sleep



When the teacher came into the classroom, ...

- 0 Harry was sending a text message.
- 1 Chloë _____ a picture on the board.
- 2 Jessica and Sophie _____a magazine.
- 3 Steve _____.
- 4 Sarah out of the window.
- 5 Mark and Graham football.
- 2 ★★★ Circle the correct words.
 - O I did I was doing some shopping when I met I was meeting my friend Sally.
 - 1 When we got I were getting to the party, everyone danced I was dancing.
 - 2 It rained / was raining, so we decided / were deciding to stay at home.
 - 3 While we walked I were walking in the park, it started I was starting to rain.
 - 4 I fell I was falling asleep while we watched I were watching a film on TV.
 - 5 He didn't answer I wasn't answering the phone because he listened I was listening to music with headphones.

3 ★★★ Complete the text with the correct past tense form of the verbs.

Peter and Terry ⁰ μ	vere sitting (sit) in a café. They
1(r	ot look) out of the window - they
² (t	alk). Just then, the waitress
	cream) and ⁴
(drop) the boys' co	fee on the floor. When they
5(l	ook) round, she ⁶
(look) out to the str	eet. They ⁷ (look)
out too and saw a y	oung man who 8
(get) out of a big ca	The state of the s
(run) outside and 10	
She 11	(hold) a piece of paper. When
the waitress 12	(come) back into the
café, she ¹³	(smile). She had her
favourite singer's au	tograph, but Peter and Terry still
didn't have any coff	

used to SB p.77

4 ** Complete the conversation with the correct forms of used to and the verbs in the list.

listen lister	play buy eat wear write ha	ave		
JOSEPH	When you were young, did you have T	V		
GRANDDAD	No, we used to listen to the radio			
JOSEPH	1 with your friends?			
GRANDDAD	Yes, we played football, but we didn't have skateboards, just simple skates.			
JOSEPH	What about shopping?			
GRANDDAD	My mother ² food			
	in small shops, not in supermarkets. She always had to cook for us. We 3 fast food.	<u> </u>		
JOSEPH	What, no burgers?! 4			
	to music?			
GRANDDAD	Of course. We had a record player.			
JOSEPH	What was school like?			
GRANDDAD	Well, we 5a uniform	n.		
	And we ⁶ everythin	ng		
	in our notebooks - no computers then.			
	But we ⁷ a lot of full	٦.		
	Why all these questions?			
JOSEPH	I'm doing a History project.			
GRANDDAD	Ah, OK. I guess I'm part of history now!			

Second conditional SB p.79

* Match the sentence halves.

- 0 If I knew Hannah's new phone number,
- If my computer was working,
- 2 I would walk to the shopping centre
- Mum would take me in the car
- I would buy some new jeans
- If I went to the shopping centre,
- if it wasn't raining.
- if I asked her nicely.
- I would send her an email.
- I would probably meet some of my friends.
- I would phone her.
- if I had more money.

** Circle the correct words.

- ALAN What ⁰ did / would you do if you ⁰ were / would be alone in a strange city?
- BELLE I 1 didn't / wouldn't go out. If I 2 went / would go out alone, I 3was I would be scared of getting
- ALAN But what 4did / would happen if you 5got / would get lost?
- BELLE If I ⁶got / would get lost, I ⁷started / would start to panic.
- ALAN 8Did / Would you ask a stranger for help?
- BELLE No way! I ⁹phoned I would phone someone.
- ALAN I 10 didn't / wouldn't be worried if I 11 got / would get lost. I think it 12 was I would be fun!

** Complete the sentences so they are true for you.

- 0 If I met a famous singer, I would ask for an autograph.
- 1 If I could visit any place in the world, I _____
- I would be very happy if _
- 3 It would be really bad if
- My home town would be more interesting if
- If I didn't live here, I _____
- If I didn't have to go to school, I _____
- The world would be better if __

Wish SB p.79

8 ★★★ Look at the pictures. Complete the sentences with the correct conditional form and the words in the list.

dance | astronaut | new | curly | stronger | sing

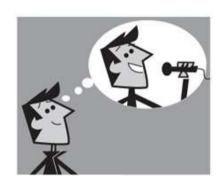




0 I wish I could dance.

I wish





I wish

I wish





4 I wish

l wish 5

GET IT RIGHT! ①



wish vs. hope

Learners sometimes overuse I wish where I hope is needed.

- ✓ I hope you will be with me next time.
- X I wish you will be with me next time.

Complete the sentences with wish or hope.

- 0 | wish | could be there too, but I have to visit my cousin.
- you have a good time in Spain.
- I could go there for my birthday.
- the weather here was as nice as it is where you are.
- things go well for you in your new town.
- 5 I'm going to get this finished by five well, I can, anyway.

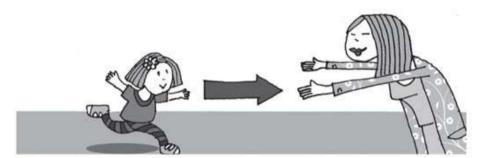
VOCABULARY

Word list

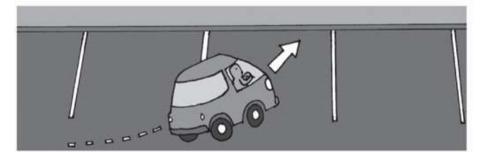
Direction and movement



around



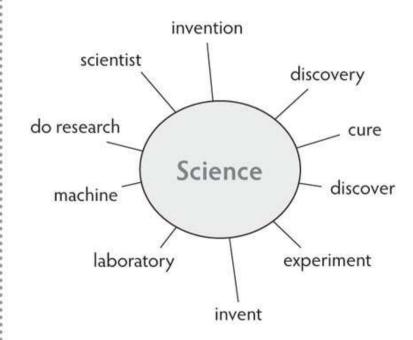
towards



forwards



up

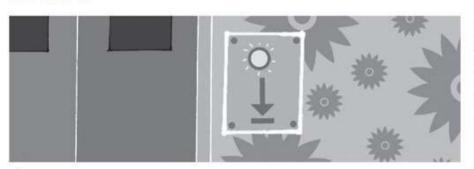




away from



backwards



down



up and down

structure

tool

treat

Key words in context

Key word	s in context
achievement	I won the race and for me, that was a great achievement.
basic	I'm not very good on the computer, but I can do the basic things.
enormous	That house has got twelve bedrooms – it's enormous .
identify	They worked hard to try and identify the causes of the illness.
malaria	Some mosquitoes carry malaria.
pill	He took three pills to try to get rid of the pain.
pollute	The dirt from the factory is polluting the river.
prevent	They have put traffic lights there to try to prevent accidents.

his car and things.

They learned about the **structure** of the atom.

He's very unhappy, so please treat him nicely.

My dad's got lots of tools in the garage for fixing

Direction and movement SB p.76

1 * Look at the picture. Complete the sentences with the words in the list.

around | backwards | up | away from down | towards | up and down | forwards



0	There's a snake. It's moving <u>around</u> a tree.
1	There's a lion. It's going slowly a white rabbit.
2	There's a small white mouse. It's running the tree.
3	There's a large black mouse. It's running the tree.
4	There's a cat. It's running a dog.
5	There's a kangaroo. It's jumping
6	There's a monkey. It's swinging and
	on a rope.

2 ** Complete the sentences with direction and movement phrases.

0	Two boys are playing in the lift. They've already gone <i>up and down</i> six times.
1	It's difficult to walk because you
	can't see where you're going.
2	I was scared when I saw the tiger coming
	me.
3	I think he was angry with me because he just
	turned round and walked me,
	and out of the door.

4	The children were	e really excited. They were
	running	the room and shouting

5	It took two hours to ge	t into the exhibition. The
	queue moved	very slowly.

Science SB p.79

3 ★★★ Use the clues 1–8 to complete the puzzle. What's the mystery word?

		0R	Ε	5	Ε	A	R	C	Н
	1								
	_			2					
	3								
4]			
5	+	+							
6									ĺ
		7							
									I
1 12	_1_								

0	I'm going to do some	research	for my	science
	project at school.			

1	Some people are trying to	a way to
	build cities under the sea.	

2	Did Edison	the telephone, or was it
	someone else?	

3	Maybe one day they'll find a	for every
	disease - but perhaps not!	

4	Some jobs can't be done by a	they
	have to be done by people.	

5	I think the lift was a very important	
	It changed buildings completely.	

6	Today we did an	with electricity

7	What do you think is the most important scientific
	of all time?

8	Our school's got a	, where we have our
	science class.	

4 ★★ Match the sentence halves to make a paragraph.

		- Land
1	He likes to think the kitchen is	
2	He's done a lot of	
3	He looks on the Internet to	
4	Sometimes he just	
5	He'd like to make	
5	He thinks he's a sort of	
		_

- a discover new ways to make sandwiches.
- b research into how to make sandwiches.
- c a machine for putting butter on bread.
- d food scientist, in fact.

I wish he could find

0 My brother loves

- e a cure for my stomach ache.
- f doing experiments in the kitchen.
- g his laboratory.
- h invents his own.

R	EADING		
1	REMEMBER AND CHECK Correct the of the Student's Book.	ne <u>underlined</u> words. Then check you	ur answers in the text on page 75
2	 Isaac Newton was walking around He sat near a tree and an orange Newton then got the book about Archimedes was an old Italian ma One day he got an idea when he He saw how the amount of water Newton saw that gravity also has Archimedes and Newton's discov Read the article. Tick (/) the best Films about science in the 20th ce 'Mad scientists' in books and films 	fell out of the tree. gravity. n. was in the <u>shower</u> . changed when he moved. an effect on the <u>sun</u> . eries were not complete <u>mistakes</u> . t title.	mother's horror films nstein to The Fly
3	Scientists haven't always been seen as very positive figures. In fact, the idea of the 'mad scientist' has been around for a very long time, and it appears in books and films to this day. Back in the 19th century, Mary Shelley wrote a story about a scientist called Frankenstein who did an experiment in his laboratory because he wanted to show that he could create life from dead things. He takes bits of dead people and he creates a monster, of course, that starts to kill people. The Frankenstein story has produced hundreds of film versions – mostly horror films, although there have been one or two comedy ones. This is the idea of science as something really quite dangerous. Things can – and probably will – go wrong because the scientists don't really know what they're doing. Another example is the film The Fly, which was made in 1958 and again in 1986. Here, a scientist wants to Read the article again. Mark the s DS (the text doesn't say). O The idea of 'mad scientists' isn't a 1 All the films about Frankenstein h	new one.	In 30% of the films, a 'mad scientist' was the bad guy; in 39% of the films, an enormous danger was created by scientific research that went wrong; and the scientist was the hero in only 11% of them. Sometimes the scientist isn't the bad guy – he's still a bit crazy, but not dangerous. Take Doc in Back to the Future, who turns a car into a machine that can travel in time. With his crazy white hair (just like Einstein) and big eyes, he's the genius who makes mistakes but tries hard and is always nice in the end. And in the TV comedy The Big Bang Theory, the scientists are nerds but certainly not dangerous. But the 'mad scientist' idea never goes away altogether. In the 2008 cartoon Igor, there's a whole country (called Malaria) that's run by evil scientists. And in the film, the hero, Igor, builds a person from bits and pieces of other people – and there we are, right back to Frankenstein again! Think of another film or TV programme with scientists in it. Are they shown as good or bad? Write a short text (about 50–100 words).
	The film <i>The Fly</i> has been made toPeople were very afraid when the		Pronunciation

The /jux/ sound

Go to page 120.

4 A survey was done of all the horror films from 1930 to 1980.

In Back to the Future, Doc doesn't get everything right.

7 In the cartoon, Igor builds a monster who kills people.

5 Einstein had big eyes.

DEVELOPING WRITING

How technology changes people's lives

1 Match the texts with the life-changing inventions in the list. There are three that you don't need.













penicillin

the aeroplane

the car

the lift

the syringe

the wheel



1

I think it's very hard to imagine what life would be like without [?]. Life in the country might not be too different, but in cities it certainly would be.

Before we had [?], people had to walk a lot more than they do now - up and down, of course, and carrying lots of things. Without it, we wouldn't have towers and really tall buildings like you see in every city in the world. How would you carry all your shopping to your home if you had to walk up to the fifth floor? And it wouldn't be easy to build places like airports, either. How would people go up and down inside with all their heavy suitcases? I think [?] is one of the most important inventions of all time.

P

would be like if [?] didn't exist?
Everyone's life would be harder.
The work of doctors and hospitals would be a lot more difficult, too.
I read once that the discovery of [?] was a kind of accident. Almost a hundred years ago, a scientist in Britain found something surprising in his laboratory and other people discovered how to turn it into this really, really important medicine. It helps people who are sick from many different things, and it's used all over the world.

Can you imagine what things

A long time ago, people didn't use to have [?]. Now life is much better because we've got it.

9

I think [?] has changed people's lives a lot – and not always in a good way. Now that we've got it, people feel freer and they can go to a lot of places much more easily. It used to be very expensive, but prices have gone down a lot in the last twenty or thirty years.

If we didn't have [?], things like the food we eat in many countries would be different. Because of [?], now you can get fish, fruit or other things from one country to another in a very short time – a day or less. So in Britain, for example, we can have fresh pineapple for breakfast, and that used to be impossible.

But [?] makes a lot of noise and creates pollution. Maybe things would be better without fresh pineapple or holidays in faraway countries.

2 Read the text again. Find examples of .	2	Read	the	text	again.	Find	examp	les	of	
---	---	------	-----	------	--------	------	-------	-----	----	--

- 1 the second conditional: things would be very different,
- 2 used to: people didn't use to have it,
- 3 comparatives: more difficult, _____

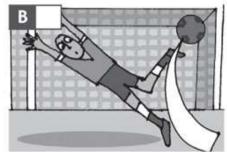
- Write a short text about an invention or discovery that you think is really important (100-150 words).
 - Choose what to write about maybe one of the other things in Exercise 1? Or the mobile phone?
 The computer? The camera?
 - What can you can say about how life used to be before we had this thing?
 - What can you say about what life would be like if we still didn't have it?
 - What comparisons can you make?

You can try to write your text without saying what you're writing about. Then give your text to a partner. Can they say what your text is about?

LISTENING

1 Listen to two conversations. Match them with the correct picture.









2

	D31 Listen again and answer the questions.	
C	ONVERSATION 1	
0	Whose vase did the girl's brother break?	He broke his friend's mother's vase.
1	Who did her brother tell about the broken vase?	
2	Why would John perhaps not do the same thing?	2
C	ONVERSATION 2	
3	Why is the girl so happy?	8
4	Why isn't the boy very enthusiastic?	
5	What would happen if someone said, 'It wasn't a goal'?	
A	LOGUE	TRAIN TO THINK
Ρι	ut the conversations in the correct order.	Using criteria
c	ONIVERSATION 1	

D

1

4 Why isn't the boy very enthusiastic?	
5 What would happen if someone said, 'It wasn't a goal'?	
IALOGUE	TRAIN TO THINK
Put the conversations in the correct order. CONVERSATION 1	Using criteria
A www.helpyourenglish.net A I know – but I'm much better now! I used to spend hours studying at home – but then I	1 Look at the inventions on page 77 again. Some people were asked which they think is the best. Match the beginnings and ends of their answers.
found a great website.	0 It's penicillin, because e
1 A Hey, look! I got 79 per cent in the English test.	1 It's the plane, because
A Why not?	2 It's the car, because
B Oh, yes – I know that one. I used to use it a lot.	3 It's the lift, because
But not any more.	4 It's the syringe, because
B Because I found a better one. And look – I got 92 per cent in the English test!	5 It's the wheel, because
B Seventy-nine per cent? That's great. But you used to be really bad at English.	a you can't give some medicines without it.b people don't have to use stairs any more.
B Oh, yes? What's it called?	 other things (like cars) depend on it.
CONVERSATION 2	d you don't have to walk or use bicycles or horses
A So he doesn't work there any more?	any more.it helps people who have bad illnesses.
1 A I can't go out tonight. I'm working on a	f it lets people travel all over the world.
presentation about experiments on animals.	
A Your dad? Why?	2 Write three inventions or discoveries that you
A Your dad worked in a laboratory like that?	think may be the best. Say why.
B Because he used to work in a laboratory where they tested things on animals.	1 It's, because
B No, he left after a year. Now he works in a pet shop – he loves it!	2 It's, because
B Yes, but he hated it. He used to come home really angry. We used to keep very quiet!	3 It's, because
B Animal testing? Really? You should talk to my dad, then.	

CAMBRIDGE ENGLISH: Preliminary

Help with reading: scanning a text

- When you scan a text, you look for specific information a price, a year, a place, a name, etc. without trying to read
 the whole text or understand what it's all about. When you scan a text, it's important that you move your eyes quickly
 down the page.
- Scanning is a very useful technique if you have little time available and only need certain precise information from a text.

Tip: scanning a text

- To scan a text successfully, you first of all need to know exactly what you're looking for. If, for example, you're
 reading a text about an invention and want to find out when it's from, you know that the answer will be a year,
 so you're looking for a number.
- Then try to find quickly where in the text the information can be found. Don't read the text word for word just
 move your eyes quickly vertically (up and down) and horizontally (across) the page until you've found the place
 in the text where the information is.
- Once you've found the place, you need to make sure the information you're taking from the text is accurate.
 Don't go too fast now it's better to check twice if you've really found the information you've been looking for.
- 1 Look at the grid to see what information is missing. Scan the text for the missing information and complete the grid.

AMES WATT:	
Year of birth: ⁰ 1736	Place of birth: 1
Year he started experimenting with steam engines: 2	
Year and day of the week when he built the modern steam engine: 3, 4	Year he sold his first steam engine: 5
Year he stopped working: 6	Year he died: ⁷

When James Watt was born in 1736 in Greenock, Scotland, simple steam engines were already used to pump water out of coal mines. These pumps weren't invented by Watt, of course, and nobody knows who first made them. However, Watt is usually called the inventor of the 'modern' steam engine.

The story begins with young Watt, sitting by the fireplace in the little cottage he grew up in. He loved watching the steam rising from his parents' boiling tea kettle in their cottage, and this was the beginning of a lifelong fascination with steam.

In 1763, somebody brought him a model of Thomas Newcomen's steam-pumping engine that was broken and didn't work any more. He asked Watt if he could try and repair the machine.

Watt was excited, and it didn't take him long to get the model going. He was fascinated by it, but soon noticed that it wasted a lot of energy because the cylinder was used both for heating and for cooling. For weeks, he carried out lots of experiments. On a Sunday afternoon in 1765, while the inventor was going for a walk, he had an idea. He thought that he could make the steam engine much more powerful if he made a second container where the cooling could take place and the steam could be condensed, while the cylinder was kept at the same temperature all the time.

The next morning, he built a prototype and was very happy when he saw that it worked. Watt had invented a much more efficient steam engine.

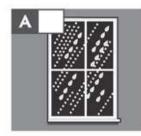
Shortly afterwards, James Watt and Matthew Boulton started a business together and began selling the Watt steam engine in 1775. Watt's engines were used in the coal mines, but they were much better than the ones used when he was a boy. His engines were also used for transportation and in the textile industry.

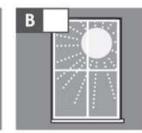
Watt was very successful as a businessman, and when he retired in 1800, he'd become a wealthy man. He died in August 1819.

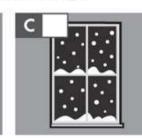
CONSOLIDATION

LISTENING

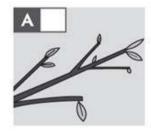
- 1 Listen to the conversation. Tick (/) A, B or C.
 - 1 What is the weather like as they are talking?

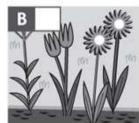






2 The boy says that spring is already starting. How does he know?

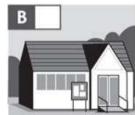






3 Where does the girl think they could have a party?







- 2 Listen again. Mark the sentences T (true) or F (false).
 - 0 It's summer.

- F
- 1 The boy would like to stop winter happening.
- 2 The boy likes to hear birds singing.
- 3 The boy thinks they could have a party at the end of the month.
- 4 You can get twenty people into the flat.
- 5 The girl's parents have a big garden.

GRAMMAR

- 3 Complete the sentences. Use one word.
 - O I go running every morning, and so <u>does</u> my friend Monica.
 - 1 I wish you _____ here but you aren't!
 - When I was younger, I ______ to think there were monsters under my bed!
 - 3 A I really don't like cold showers.
 - B ______ do !!
 - 4 You can't come? That's a shame. I really wish you

- 4 Correct the sentences.
 - My sister doesn't like science, and so do I.
 My sister doesn't like science, and neither do I.
 - 1 If I knew the answer, I told you.
 - 2 He's read this book, isn't he?
 - 3 I wish my sister is nicer to me.
 - 4 I wish I can go out tonight, but I've got homework.

VOCABULARY

5 Complete the crossword.

Н ² 1			3	4
S				
		5		
	6			
7				8
9				

Down

- 0 I think we're going to move later ... year.
- 3 I saw this big dog. It was running ... me. I was so scared.
- 4 I'll come and see you the ... after tomorrow.
- 6 He's a little late, but he'll be here ... too long.
- 8 We're going to ... a DJ for the party.

Across

- 1 It's a ... party it's all about sport.
- 2 Who ... the telephone?
- 5 I was scared of the dog so I ran ... from it.
- 7 She's a scientist she does ... into new materials for building.
- 9 Our party is on the 18th, two weeks from
- 10 I'm writing a ... list for the party I'm inviting lots of people!

DIALOGUE

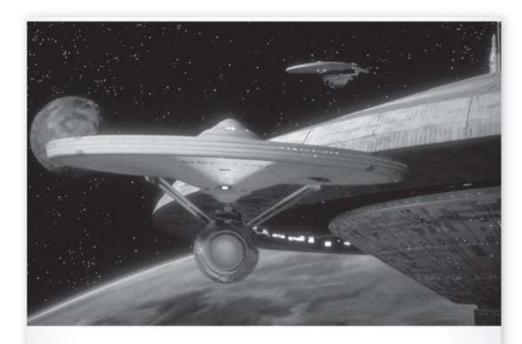
6 Complete the conversation. Use the phrases in the list.

forgotten about | In other words, | That's a shame round and round | thank goodness | lucky you What do you reckon | there's nothing wrong with HAYLEY Hi, Max. Listen, I want to say sorry for yesterday. I didn't mean to get angry. I'm sorry I said those things. Oh, that's OK, Hayley. I've MAX ⁰ forgotten about it already. HAYLEY Really? 1 , you're OK with it? Sure. I think we should still be friends. MAX HAYLEY I think that's brilliant. Thanks! And I promise I won't speak to you like that again. Well, you know, 3 MAX getting angry. I mean, it happens to everyone. But sometimes people say things they don't really mean. HAYLEY Yes, you're right of course. And honestly, I don't get angry like that very often -Well, 5_ _! I wish I could MAX say the same. HAYLEY Oh? Do you often get angry? Yeah, I get angry a lot, and I get bad MAX thoughts that go 6 inside my head. Oh, anyway, let's not talk about that. Let's go get some coffee. HAYLEY I'm sorry, I can't. I've got to go home. But OK, another day. MAX See you tomorrow, Hayley.

READING

7 Read the article. Match the missing sentences with the spaces A-E.

	1.70	
0	and meet to speak it	D
1	when Star Trek included them	
2	in the 1960s and 1970s	
3	the deepest parts of outer space	
4	played by William Shatner	



one of the greatest successes ever in science fiction is the TV series *Star Trek*. The person who got the idea for the story was Gene Roddenberry, and the very first episode went on air in 1966. The series features a spaceship – the Starship Enterprise – that has gone out into space on a mission to explore [A] and to make contact with other civilisations. At the time, it was probably the best science fiction on TV or in the movies, and the series was remarkable because members of the crew of the Enterprise included women and people of different races, something that TV [B] didn't show very often.

Some years after the original series finished, a new series called *Star Trek: The Next Generation* was created, with Patrick Stewart as Jean-Luc Picard, the captain of the Enterprise – a quite different figure from the original Captain Kirk, **[C]**.

Star Trek is about 50 years old, but it still has an incredible cult following. There are 'Trekkie' conventions in many places every year. Among the Enterprise's enemies were the Klingons, from the planet Klingon, and a whole Klingon language has been developed. People learn it [D]. There are references to the show in many books, plays and TV programmes. In The Big Bang Theory, for example, some of the characters know every episode by heart.

And it's also interesting to observe that some things that were fiction [E] are not fiction any more. Mobile phones and sliding doors, for example, seemed incredible in the early episodes, but now they are part of our everyday lives.

WRITING

- 8 Write a short text (about 120–150 words) about a science fiction book, film or TV programme that you really like or really dislike. Include the following information:
 - what the book / film / TV programme is called
 - what it is about
 - what you like / dislike about it