Smart homes

Match the vocabulary with the correct definition and write a—j next to the number 1–10.

1	to monitor	a.	an original model
2	frail	b.	a high-speed communications system
3	elderly	c.	not strong
4	usage patterns	d.	programs used by a computer
5	a prototype	e.	to watch or observe
6	a study tool	f.	quite old
7	broadband	g.	something done in an organisation without any help from outside
8	hardware	h.	something that is used to help you study
9	software	i.	the way you use something which is repeated again and again
10	in-house	j.	a computer and other equipment used in data processing

How is technology changing the homes we live in? How can hi-tech homes help old people to live independently? Read the article to find out about research and development into smart homes in the UK.

People taking care of the elderly or sick at home may get help from the house itself. **Big changes**

The beginning of the 21st century saw a revolution in home-living with new technology changing the places where we live, from the wireless internet to TV screens that hang on walls, and it seems technology could be changing our homes again. A project conducted by Johann Siau, Senior Lecturer at the University of Hertfordshire's School of Engineering and Technology, builds on the University's InterHome project – aiming to create a home that monitors people living at home who are frail or elderly.

The InterHome

'We've developed a wrist-band type device,' says Johann Siau, 'which allows us to monitor the condition of an elderly person, or whoever is wearing the device. It allows us to collect data of a person, to detect if the person has fallen or is away from where they are supposed to be. It connects an elderly person with an assisted-living type device with the InterHome.' The assisted-living project is part of the University's wider InterHome project, which is the development of a smart house. The house stores the usage patterns of the person living there and can adapt to make it as energy efficient as possible. 'Linking the two together, and building the service element, allows us to introduce the assisted-living idea to care for the elderly. It's very important that these technologies are there to help and support rather than to replace any of the existing services.'

Built from zero

The InterHome is not just a prototype (a doll's house at the moment) or a vehicle for research, it's a study tool where students from a range of scientific disciplines get to learn and develop technology. The InterHome incorporates the latest broadband technology, mobile data and communication. Researchers and students make sure all

the technology works together. 'We've used this to teach our undergraduate students, as well as our postgraduate students, and gives us the flexibility to be able to design our systems because the hardware and software is developed in-house.' It requires a variety of skills from students - electronic engineers, embedded-system engineers, computer students, design students. 'The current plan we are working on is a smart home project in Watford with some commercial companies,' says Johann Siau. 'We are looking at how a smarter home can provide extra value services.'

Check your understanding: true or false
1. The new project has the objective of creating a home where people who are quite
old or not very strong can be observed to see if they need any help.
True False
2. The wrist-band can tell if an old person is in the wrong place.
True False
3. The assisted-living project is not connected to the InterHome project.
True False
4. The InterHome will allow students to learn about technology.
True False
5. All the students working on the project have the same skill.
True False
6. The smarthome project in Watford also involves local government.
True False
Check your vocabulary: gap fill Complete the sentences with one word only. Here is an example:
People who care of the elderly at home may get help from the house
itself. (Answer: take).
1. Wireless internet and TV screens that hang on walls are two things
have changed life in our homes.
2. Johann Siau is the head of a project objective is to create a home
that monitors people who are delicate or quite old.
3. A wrist-band device has developed by the project members.
4. The device has the ability to detect if a person fallen or gone
away from where they are supposed to be.
5. The InterHome is not just a prototype, it's a study tool.
6. The InterHome incorporates broadband technology and mobile data as well
communication.
communication. 7. The project requires a range of skills from students.
8. At the, the team are working on a smarthome project with some
8. At the, the team are working on a smarthome project with some commercial companies.
<u>Discussion</u> What do you think houses are going to be like in the future? Will we
all live in smart homes?

READING AND USE OF ENGLISH - Part 1 Multiple-choice cloze

Linking words

Some questions test your knowledge of linking words and phrases.

- Sook at the bold linking words in the sentences (1-6). Match them to the synonyms (a-f).
- We had the party at home rather than hiring a hall.
- We'll go ahead, as long as you're happy with that.
- The plane was late **owing to** the bad weather.
- Everyone was early, apart from Leon.
- He is still a formidable opponent, despite his age.
- I turned the music down so as to hear him better
- because of, due to, thanks to
- in spite of
- instead of
- in order to
- except
- if, provided that
- 10 Choose the correct linking words (A-D) to complete the sentences.

TIP: Make sure the word you choose fits with the words that come after the gap as well as those that come before.

1	We de	cided ·	to tal	ke our	own	picnic	
			than eating out				

A instead

B whereas

C rather

D by contrast

2 We needed to hurry up, we would be late.

A otherwise

B however

C although

D except

The product was a success

its problems.

A except

B in spite of

C however

D although

4 I won't call you _

there's

a problem.

B provided that

A unless

C except

D owing to

5 The shop sold cards and magazines books.

A in addition

B in particular

C as well as

D what's more

6 the first experiments failed, she never thought about giving up.

A However

B Nevertheless

C In spite of

D Although

EXAM TASK

Read the text about preparing for a possible emergency and decide which answer (A, B, C or D) best fits each gap. There is an example at the beginning (0).

Preparing for the worst

some people would (6)

so we can then (8)_

but says that, for her, it makes perfect (7)_

We all depend on supermarkets for food and we __ it for granted that the shelves will always be full. But some people believe it's best to be prepared there's an emergency and normal life is disrupted for a while. They say there is a risk from extreme weather or an outbreak of flu, (2)_ more serious natural disasters. People who prepare in this way are informally as 'preppers', and more and more people are now listening to their (4) . Alison Jones from Cambridge, UK, is a typical example. She keeps a month's of food in a cupboard, along with bottled water and medicines that her family needs. She is aware that

her to be slightly odd,



prepared. 'We keep just enough to see us through a few weeks,

0	A get	B have	C make	D	take
1	A even if	B in case	C provided that	D	whereas
2	A although	B as well as	C in spite of	D	in contrast
3	A known	B called	C named	D	entitled
4	A views	B wishes	C requests	D	decisions
5	A donation	B number	C supply	D	delivery
6	A decide	B accept	C realise	D	consider
7	A sense	B reason	C idea	D	judgement
8	A go through with	B put up with	C get on with	D	get away with