KEYNOTE Upper Intermediate; H. Stephenson, L. Stansford, P. Dumme
National Geographic Learning, 2015

4	Complete the paragraph about nanotechnology with
	these passive verbs.

can't be seen needs to be regulated will be disposed of

has been used should be handled was inspired

Nanotechnology (nano means extremely small) is a
relatively new technology which was inspired
by ideas that the physicist Richard Feynman had 50
years ago. The actual materials - nanomaterials - are so
tiny that they ² with a standard
microscope. They include materials such as carbon or
silver. Recently nanotechnology ³ to
improve products as diverse as sunscreen, solar cells and
bandages. There are some worries about the long-term
effects of nanomaterials and some scientists warn that
they - very carefully or that their use
by governments. One problem is how
products containing nanomaterials ⁶
or recycled in the future.

5 Read about a new way of giving medicines to people. Choose the correct form of the verbs, active or passive, to complete the article.

Nanopatches: pain-free vaccinations

- 6 Read the article in Exercise 5 again and choose the preposition used to say:
 - 1 why many technological applications have been developed by / for
 - 2 how a lot of medicines are delivered by / for

7 Complete the sentences with by and for.

1	Calculations that would take humans years can be done
	computers in minutes.

- 2 The authorities say that the disease can't be spread animals.
- 3 The medicine should be taken ____ mouth
- **4** Samples have been taken _____ analysis and the results will be available tomorrow.
- 5 Following complaints, all the products are being checked _____ faults.
- **6** Better results would be achieved _____ repeating the trial with more people.

SPEAKING Technology in everyday life

8 21st CENTURY OUTCOMES

Work in small groups. Look at the list of inventions and discuss what you know about each one. Then decide what problem each one solves or what purpose it has. Choose the two inventions you think are most important.





In medicine, many technological solutions 1 have developed / have been developed for specific problems. A good example of this is giving medicine to prevent diseases, such as flu, which 2 cause / are caused by infection. Most of these medicines 3 deliver / are delivered by needle. But approximately twenty per cent of people are afraid of needles. This 4 can stop / can be stopped them $\stackrel{\cdot}{\text{going}}$ to the doctor's. According to the WHO, half of the vaccines which 5 give / are given in tropical areas don't work because they 6 haven't kept / haven't been kept cold enough. Now a new way of giving these medicines to people – the nanopatch -7 is testing / is being tested. The nanopatch is ^{a small} patch that sticks to your skin. Mark Kendall and his team at the University of Queensland in Australia ⁸ have been working / have been worked on the nanopatch for several years. He hopes that the nanopatch 9 will make / will be made a big difference to the number of deaths (currently 17 million a year) from infectious diseases.



- driverless cars
- 3D printers
- bionic limbs
- waterproof coatings
- biodegradable plastic
- solar panels
- smart materials (that react to changes in their environment)

21st CENTURY OUTCOMES TECHNOLOGICAL LITERACY Understand how technology can be used to achieve a specific goal

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Zesaknowane w CamScanner

KEYNOTE Upper Intermediate; H. Stephenson, L. Stansford, P. Dummett, National Geographic Learning, 2015

	_		EC
EXE	RC	13	ES

- Rewrite the sentences in the passive form.
 - An astronaut took a 3D printer to the International Space Station.
 - When did they invent the computer mouse?
 - 3 Were doctors using stem cell therapy in the 1990s?
 - 4 They didn't install fibre optic cables in my area until last year.
 - 5 Which company is manufacturing driverless cars?
 - 6 Were they demonstrating electric cars at the exhibition?
- 2 Complete the sentences with the passive form of the tenses in brackets.
 - 1 These medicines _____ (prescribe) since 1995. (present perfect)
 - 2 The patients _____ (examine) before taking part in the trial. (past perfect)
 - 3 The group _____ (contact) by the hospital. (present perfect)
 - Only one of the participants

- 4 Choose the best option to follow each sentence. Both are grammatically correct.
 - 1 I love these photos you took on your trip to Venezuela.
 - a What did you use a camera or your phone?
 - b What was used a camera or your phone?
 - 2 This is a state-of-the-art factory for new medicines.
 - a They built it last year.
 - b It was built last year.
 - **3** Three ambulances were called to an incident in the town centre last night.
 - a They took several people with minor injuries to hospital.
 - b Several people with minor injuries were taken to hospital.
 - 4 Our new local doctor is very different to the previous one.
 - a She's completely changed the appointments system.
 - b The appointments system has been completely changed.
 - Several health organizations are trialling a new drug for malaria.
 - a They will report their findings next year.
 - b Their findings will be reported next year.
 - **6** The government has proposed changes to the public health service.
 - a They are discussing the proposals this week.
 - b The proposals are being discussed this week.
- 5 Choose the correct option to complete the sentences.

	7	City one of the participants				
		(not / speak) to. (present perfect)				
	5	the results of the tests already				
	•	(give) to the patient? (past perfect				
	6	Where the patient				
		(take)? (present perfect)				
3	C	Complete the sentences with the passive form of the				
•		nodals.				
	1	Visitors to the factory (should /				
		accompany) at all times.				
	2	The new policy (not / will /				
	_	implement) until next year.				
	2	All changes to the system (must /				
	J					
		notify) in writing.				
	4	When the building checks				
		(will / complete)?				
	5	The exit (not / should / use) by				
		unauthorised staff.				
	6	Which department these boxes				
		(should / deliver) to?				
	7	the invitations				
		The state of the s				
	۵	(can / send) out today? This email (not / must / see) by				
	G					
		anyone outside this department.				

- 1 The research department is being funded by / for the government.
- 2 The plants are being investigated by / for new medicinal uses.
- **3** A survey into the use of prosthetics will be carried out by / for Professor Ross.
- **4** New medicines are being trialled by / for the most important diseases.
- 5 The work was carried out by / for an outside contractor.
- **6** Following the man's accident, he was checked by / for broken bones.
- 6 Correct the mistakes in these sentences.
 - 1 The emails were send yesterday.
 - 2 Too many changes are been made too quickly.
 - 3 The faulty device was sold for most shops.
 - 4 The report will publish next week.
 - 5 Many people was questioned in the survey.
 - 6 All of this work has done by our group.

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