Module 4

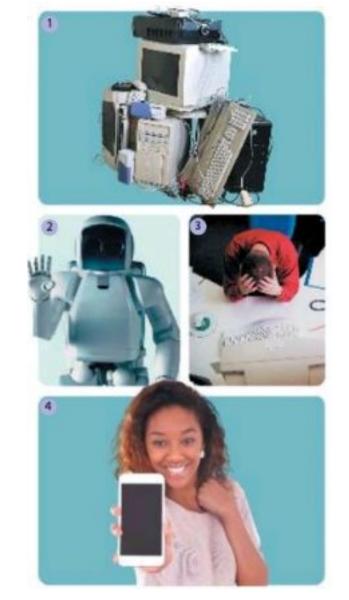
We are going to learn about:

Robots & technology

Computers & the Internet

The Gadget Show

E-waste

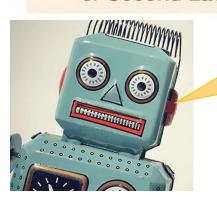




Read Isaac Asimov's Laws of Robotics below and look at the pictures. How do you think they are related to the text?

- 1 A robot may not injure a human being or through inaction allow a human being to come to harm.
- 2 A robot must obey orders given to it by human beings, except where such orders would conflict with the First Law.
- 3 A robot must protect its own existence as long as such protection does not conflict with the First or Second Laws.

Injure - ранить, причинять вред;
Inaction - бездействие;
Obey - подчиняться;
Existence - существование;
Protection - защита;
Harm - вред;



Asimov's law are about how robots should act. The text is also about robots and what they do. Both are discussing robot behavior and technology.

much more difficult in practice than in theory to build

The truth is that for such a robot to exist it must be able to think and scientists simply don't know how to give robots this ability. They don't have the knowledge to give a nobot intelligence or the power of reasoning.

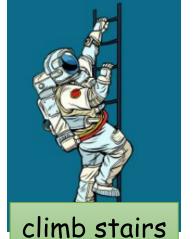
used on robots suich as Repliee 02 another obstacle as robots has A understand figurative speech such as gestures and emotional respons All in all, experts are chirded assistants may become a reality. So others say fifty. Who knows – soo may be as common as home company to the company of th

Which of the following do you think robots can do? Decide in pairs.

I think robots can vacuum the carpets, mow the lawn and climb stairs. They may also be able to talk. walk the dog



make decisions



mow the lawn

think

talk



Which of the following do you think robots possess/show? Decide in pairs. Read and check.

intelligence

consciousness

mobility

accuracy

reasoning

creativity

Robots can definitely move and they must be able to follow instructions well. So they possess mobility and accuracy.



I don't think they can think about themselves or reason on their own. So they don't possess consciousness, intelligence or creativity.



Before reading learn new words.

обслуживать	теоретически	спосооность к умозаключениям
эмоциональная реакция	искусственный	образная речь
убирать	косить лужайку	заграждение, барьер
решение	обнаруживающий разногласия	решить проблему
способность	помеха, преграда	выполнять задание
бездействие	просто	реальность
и так далее	обыкновенный	функция
кроме	атомная энергия	подчиняться
чистить	существование	пылесосить

The truth is that for such a robot to exist it must be cide which of the able to think and scientists simply don't know how to All in all, experts are divided as to when robot 1 Text 1 assistants may become a reality. Some say five years, True others say fifty. Who knows - soon household robots Text 2 may be as common as home computers. 2 False problem is to study the human brain and try and re Text 3 3 False create an artificial brain that copies its functions. Nevertheless, scientists have already overcome se False 4 other problems such as mobility. For example, 5 Honda's ASIMO robot can walk, run and climb stairs to + Stated without any problems. Also, robots can now look more 19 human thanks to roboticist David Hanson's invention 1e True 6 of a skin covering called Frubber, which has been an ot Stated used on robots such as Repliee Q2. Language may be is another obstacle as robots have to be able to ld 8 True understand figurative speech such as idioms, as well as gestures and emotional responses.

Read the text 'Where are the robots?' and fill in the gaps 1-6 by chaosing one of the phrases (4.6). There is one extra phrase.

Nevertheless, scientists have already overcome other problems such as mobility. For example, Honda's ASIMO robot can walk, run and climb stairs

without any problems. Also, robots can now look more human thanks to roboticist David Hanson's invention

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Text 1

Text 2

Text 3

Complete with: built, overcome, divided, become, perform, cater, exist.

orm

come

ded

ter

exist

- 1 One day, robots in our homes will a reality. become
 - 2 Today, we land строить;
 - task only.

 Scientists I проблему;

 how to mal Be divided разойтись во взглядах;
 - Experts are robot assist

 Become a reality становиться реальностью;

 Perform a task выполнять
 - 5 It would be задание; our needs. Cater for one's needs удовлетворять чьи-либо нужды;
 - Honda Exist существовать;
 - Robots that can think like humans do not

yet.



Match the words from the text to make phrases, then use them in sentences of your own to talk about the text.

- 1 nuclear
- 2 figurative
- 3 household

- 4 artificial
 - emotional
- 6 overcome



- a brainb robots
- c a problem



d powere speechf responses



Household robots



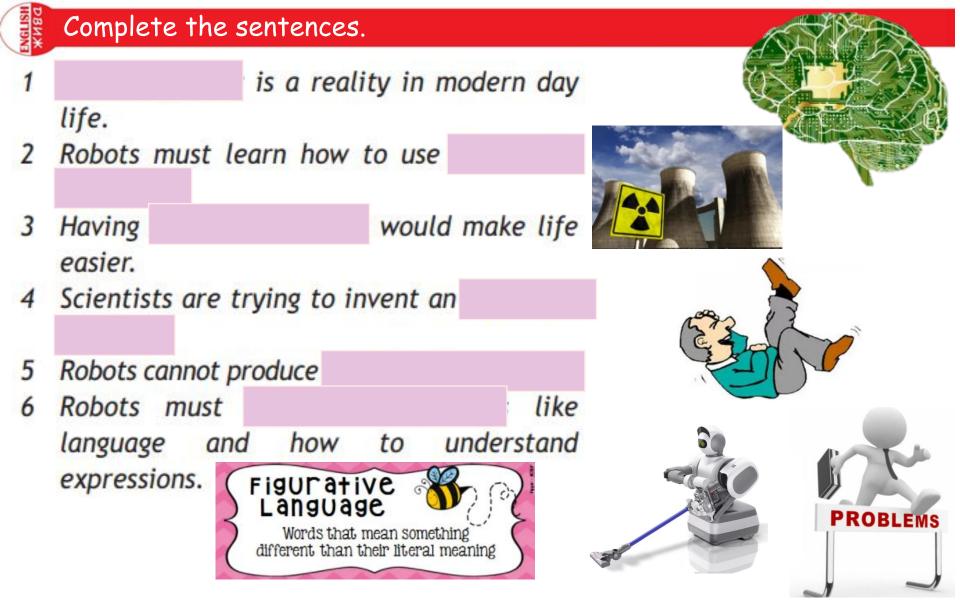
Emotional responses

Overcome problems



Artificial

brain



Find the correct word.

- 1 The invention discovery of a thinking robot lies in the future.
- 2 Robot factory workers are now a fact reality.
 - The main problem trouble with creating a robot is how to give it intelligence.
 - I would love to own a robot that could clean clear my house.
 - Language is an **obstruction (obstacle)** to creating a functioning robot.
- 6 It is quite ordinary common for households to have a microwave.

Invention - изобретение; **Discovery** - открытие;

Fact - факт;

Reality - реальность;

Problem - проблема; Trouble - неприятность;

Clean - чистить;
Clear - отчетливый, ясный;

Obstruction - заграждение,

барьер; **Obstacle** - помеха, преграда;

Ordinary - обыкновенный;

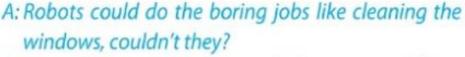
Common - обычный;



Imagine that robots existed that could do all the housework and lots of other tasks, too. In pairs, discuss how your life would change if you had one.



Clean windows



B: Yes, and they could even wash the car, so we'd have much more free time.



Wash the car



Vacuum carpets







Read the text again. Th notes under the headin

study skills

Summarising

Make notes on the main points of appropriate headings. Start your pi with one sentence that summarises whole text. Write your summary, in main points in your own words. Ch

summary is clear, complete and make

Text 1 Text 2

Text 3

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Correct the sentences. Use the words: common, problem, clean,

inventions, obstacles, conflicts, reality.

- Computers and the Internet are two fascinating developments of modern technology.
- According to Asimov, a robot must not do anything that argues with the three Laws of Robotics.
- It is only a matter of time before there are robots that cook and clear in every home.
- These days it is quite ordinary for children as young as ten to have a mobile phone.
- in fact. There are many difficulties to overcome when

Many of the gadgets we see in films don't exist

- trying to create a perfectly functioning robot.
- In my opinion, the main trouble with mobile phones is that their buttons are too small.

Workbook inventions

conflicts

clean

common

reality

obstacles

problem



Match the words in the two columns. Then, use the phrases to complete the sentences.



become a reality?



Complete the text using: figurative, emotional, home, household, artificial.

Do you think it is possible to have a(n)

1) .. emotional response to a robot, such as love? Well, robot researchers do! In a few decades, some think we may have

2) household ... robots that look

like humans, act like humans and

even talk using 3) ... figurative
speech like humans! We will feel for these
robots the way we feel about other humans and
animals.

However, scientists probably need to create a(n)

4) .. artificial brain before machines are able to think, and this is no easy task. But if you doubt that this will happen, stop and think: who could have predicted 100 years ago that 5) home computers and the Internet would exist?



Complete the crossword puzzle using the clues.

Across

3 thinking about sth carefully before reaching a

conclusion

- not natural, made by humans the ability to
- produce original things, ideas, etc.

Down

- the ability to
 understand and
 learn
 the ability to move
- from place to place when you are not doing anything

