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Arbetsblad

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Vocabulary

The following words are specific to the context of the programme. Make sure that you are familiar with them before listening.

Word	Description	Synonym
substantial	large in amount, value or importance	considerable
ingenious	very suitable for a particular purpose and resulting from clever new ideas	clever, creative, innovative
insulin	a chemical substance produced in the body that controls the amount of sugar in the blood or a similar artificial substance given to people whose bodies do not produce enough naturally	
renewable	that is replaced naturally or controlled carefully and can therefore be used without the risk of using it all up	
domestic	here: used in the home, connected with the home or family	
pilot	here: a trial run or experiment to see if something will work or not	trial run
mandatory	required by a law or rule	obligatory
advocacy	the act or process of supporting a cause or proposal	
exchange rate	the ratio at which the principal unit of two currencies may be traded	
bachelor's degree	a degree that is given to a student by a college or university usually after four years of study	
equivalent	equal in force, amount, or value	same, equal

The following words are general in nature. Take note of these to expand your general vocabulary of the English language.

portable	capable of being carried or moved about	mobile, movable
transfusion	the process of putting new blood into the body of a person or an animal	
significant	large or important enough to have an effect or to be noticed	
deploy	here: to move a health care item to where it is needed	
to plunge	here: to move or make something move suddenly forwards and/or downwards	
policy	a plan of action agreed or chosen by a political party, a business, etc.	
proficiency	the ability to do something well because of training and practice; here: a high level of language proficiency in English	
fluency	the quality of being able to speak or write a language, especially a foreign language, easily and well	
recession	a difficult time for the economy of a country, when there is less trade and industrial activity than usual, and more people are unemployed	
assurance	a statement that something will certainly be true or will certainly happen, particularly when there has been doubt about it	here: guarantee

Sources:

- <https://www.merriam-webster.com>
- <https://www.oxfordlearnersdictionaries.com>

Content questions

Kenya: Using green energy to increase quality of life

1. What is the difference between rural and urban parts of Kenya when it comes to energy?
2. Engineer Norah Magero has designed Vaccibox. What is it and how can it increase the quality of life for people in rural areas?
3. What inspired Norah to design Vaccibox?
4. In the program, three Kenyans are interviewed about Norah's invention. What benefits do they mention regarding the technology she used?

Wales: A policy for the young

1. What is this new policy and why is it needed?
2. How many will qualify for the policy in this first trial and under what conditions?

The International Space Station (ISS)

3. The International Space Station is set to be retired in 2030. Where will it be retired and what is so special about this place?
4. Where does NASA plan to focus its funding in the future?

Weight and Time by We Mavericks

5. Circle whether the statement is TRUE or FALSE

a. Victoria was born in New South Wales, Australia.	TRUE/FALSE
b. She discovered folk music as an adult.	TRUE/FALSE
c. Lindsey Martin is a multi-instrumentalist.	TRUE/FALSE
d. The duo met at a carnival.	TRUE/FALSE

The IELTS: expensive and unnecessary?

6. What does the IELTS stand for and what is it for?
7. Why do some countries feel they should be excused from taking the test?
8. According to Ebenezer Wikina, the test creates a burden for young Nigerians. In what way?
9. The UK Home Office has said that there is an alternative to the IELTS. Why is this option not compelling?

Language points

Complete the following idiomatic expressions

10. You are always ... against time to make sure the vaccines do not expire.
 - a. jumping
 - b. running
 - c. walking

11. If we're ever going to really ... through this climate change.
 - a. fight
 - b. tackle
 - c. punch

12. This is one of the components that will help us ... the energy crisis in Africa.
 - a. punch
 - b. fight
 - c. tackle

13. The duo met at a folk festival and ... it off so well they formed We Mavericks soon after.
 - a. hit
 - b. cut
 - c. knock

14. They are trying to secure funding in order to ... their passion and continue their studies.
 - a. track
 - b. hunt
 - c. pursue

15. It's not really an alternative that will help ... the burden on young people.
 - a. ease
 - b. release
 - c. disease

Discussion points

Climate change and the demand for energy:

In today's program, we learned about the unreliability of electricity for people in rural parts of Kenya. The climate crisis and the increase in Earth's population have meant that we have had to rethink our demand for energy in many ways.

- What are the upsides and downsides, if any, to installing and using renewable energy sources? If you compare renewable energy sources to using fossil fuels, are there any upsides to using fossil fuels? And how about nuclear power?
- How is Sweden tackling the climate crisis? Do you agree or disagree with Sweden's course of action?
- In tackling climate change, there are many things that we as individual people can do to contribute. Name a few things that you think can have a great impact and that can be done by each and every one of us.

NASA and space exploration:

NASA is an acronym (a word formed from the initial letters of a phrase of words) and stands for National Aeronautics and Space Administration. NASA headquarters in Washington D.C. is perhaps the most famous space agency in the world. NASA is funded by the US government and receives approximately 23.2 billion dollars (2021) a year.

- How do you feel about space exploration? How important is it for us as a human race? Can anyone go into outer space, or does space belong to some countries more than others? What laws do we have to regulate space and what we do in space?
- NASA has a logo that is known all over the world. Explain the different elements of the logo and what they represent.
- A fundamental motivation for NASA to receive funding is the important discoveries that are made in outer space. Do you know of any of these discoveries? If not, what can you find online?
- The race to have the technology to get into outer space has shaped our history in many ways. What do you know about the space race? In what ways do you think this has had an impact on our way of living today? Do we have any inventions that have come about as a result of the space race? What important steps have we taken historically to get into outer space? What has transpired between countries as a result of the space race and what kind of relations have formed between countries interested in space exploration?
- As we heard in the program, NASA intends to focus its funding on explorations of deep space in the future. The reason for this is that private companies are exploring space closer to Earth. One such private company is SpaceX. What is the ultimate goal of SpaceX and what do you know about the company and its founder Elon Musk?
- If you had a chance to go into outer space, would you take it? What requirements, if any, would you have to fill in order to be able to go on a space journey?

Teachers' note

Questions for working with the photo on page 1:

- The photo on page 1 is of a Vaccibox, a new invention designed to help increase the quality of life for many people by using renewable energy. Do you know of any other inventions designed to do the same? If you don't, see how many inventions you can find online.
- What are some of the greatest inventions ever made, in your opinion? How many of these inventions were designed to solve a problem?
- If you could invent anything you wanted, without thinking too much of the technology needed or the production cost, what would you invent? If you're game, organize a fair to showcase your students' designs. Students can work in pairs or in groups to design and showcase their inventions with either an oral- or a written presentation, or both. The focus can be to design an invention to solve a problem and increase the quality of life on a local or a global scale, or simply to invent something that people in general would find useful.

KEY

1. The electricity is much more reliable in urban areas compared to rural areas.
2. Vaccibox is a solar-powered fridge which can be transported anywhere. This will help increase the quality of life for people in rural areas, where the electricity is less reliable. It can help transport medical items such as vaccines, blood or drugs.
3. Norah used to work in a hospital, where the vaccines would expire if they were not kept in a cold storage.
4. Bernard mentions that it is affordable and can be used anywhere at any time. Karita mentions needing electricity to be able to work and Brenda mentions the possibility of storing excess food for domestic or for commercial use.
5. The new policy promises every eighteen-year-old leaving the care system sixteen hundred pounds a month for two years. The policy has come into effect because many young people end up in the care system unless they have a parent or a guardian to look after them.
6. Around five hundred people are expected to qualify in the first trial and the plan is for it to be unconditional, meaning the participants will receive the money even if they get a job.
7. The International Space Station will crash into a part of the Pacific Ocean known as Point Nemo. Point Nemo is special because it is the part of the ocean furthest away from any land on Earth. It is known as a spacecraft cemetery as it has been used deliberately to crash spacecraft over the decades.
8. In the future, NASA plans to focus funding on missions in deep space as private companies focus on space activities closer to Earth.
9.
 - a. FALSE
 - b. FALSE
 - c. TRUE
 - d. FALSE
10. International English Language Testing System. It's a test you have to take if you wish to study in the UK, the US or Canada as a foreign student.
11. Some countries feel they should not have to take the test as they are already native speakers of English and shouldn't have to prove their fluency.
12. The test is very expensive. For Nigerians the cost can equal three months wages and there is no guarantee that you will pass.
13. The option is to complete a bachelor's degree according to the standards of a UK bachelor's degree, which is an alternative that will require more steps to complete and will cost about the same.
14. b. running
15. a. fight
16. c. tackle
17. a. hit
18. c. pursue
19. a. ease

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