

Module 6



- space technology
- the SETI programme
- newspapers and the media
- disappearing languages
- White Fang by Jack London
- a biography of Jack London
- languages of Britain
- means of communication
- ocean noise pollution

The image is a composite graphic. In the background, a satellite with solar panels is in orbit above the Earth's blue and white horizon. A bright orange sun or star is in the upper right, with a red laser beam pointing from it towards the satellite. In the bottom right corner, a cartoon illustration of a man with dark hair, wearing a yellow jacket over a white shirt, is giving a thumbs-up gesture with a surprised expression. A large yellow speech bubble with a black outline points from the man towards the center of the image.

Are you ready?

Do you want to visit **space** one day?

stars

What can you see in the night sky?

What is it?

the solar system

What is it?

the moon

What is it?

a planet

the galaxy

What planet is it?

the Earth

What is it?



What can you see through it?

How can you get to them?



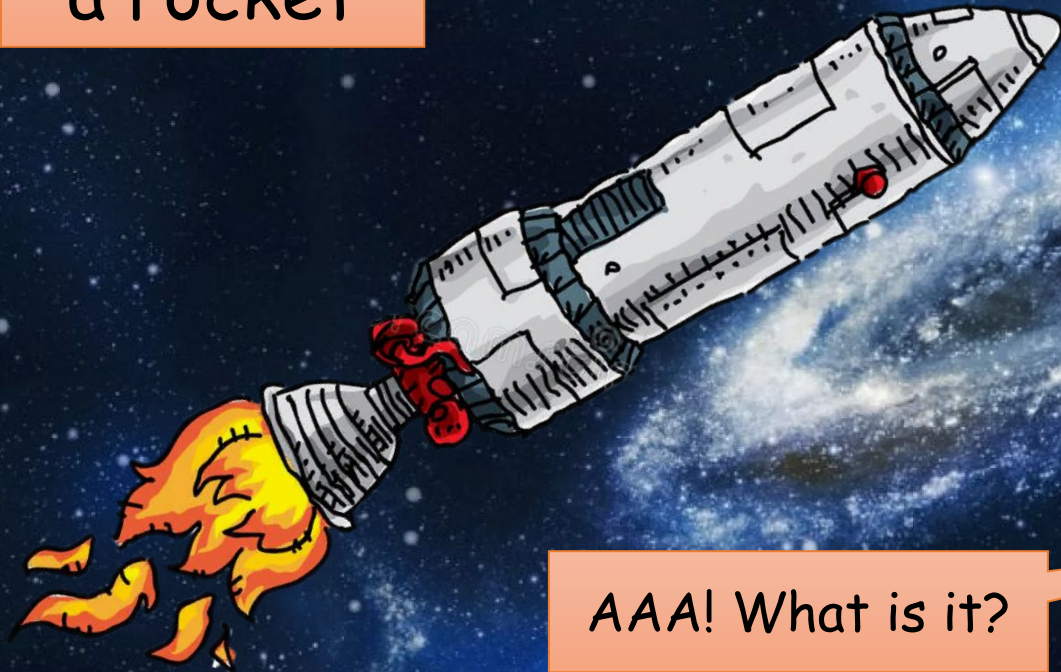
an alien

an astronaut

an asteroid

(by rocket)

a rocket



AAA! What is it?

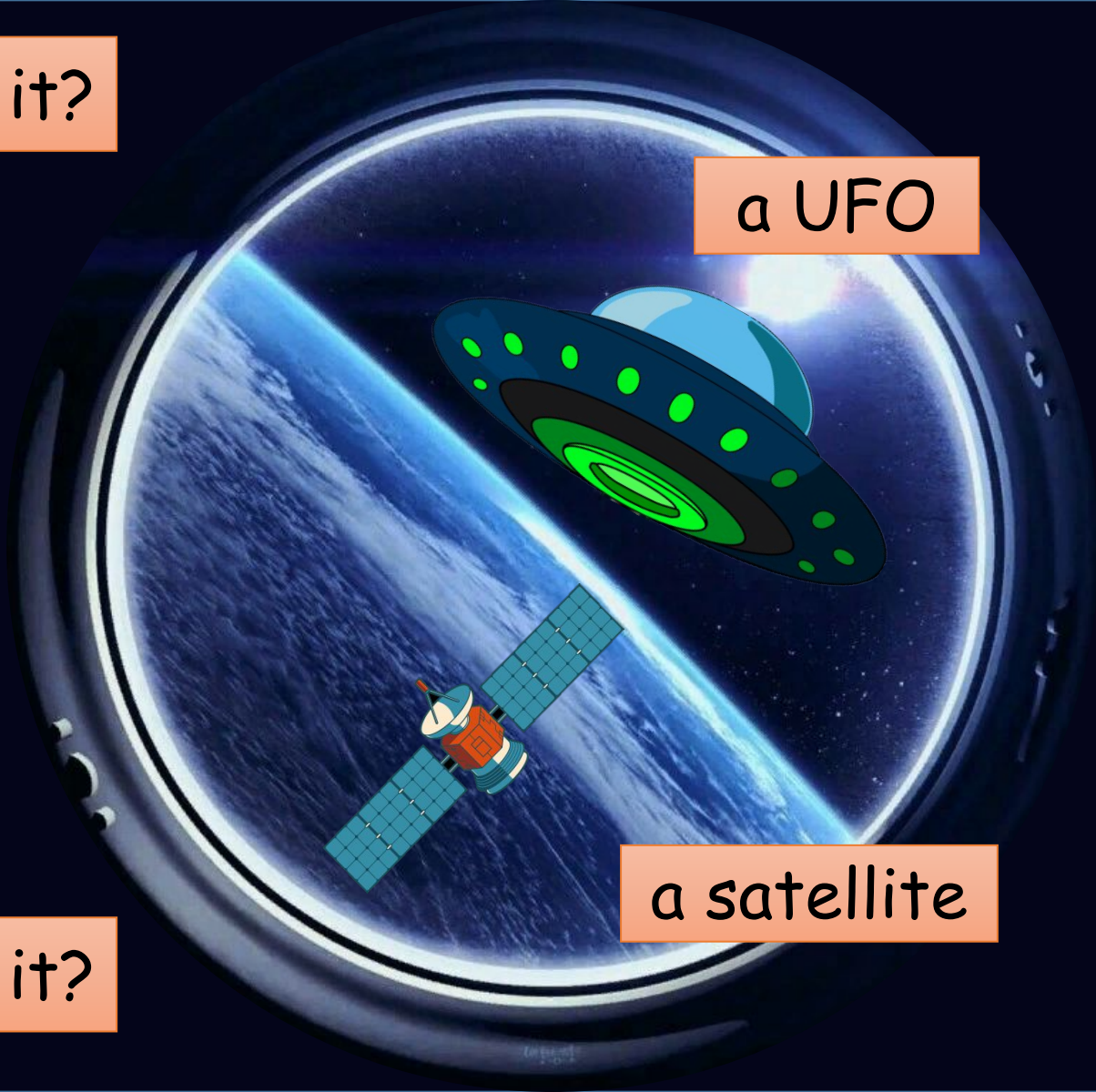


What is it?

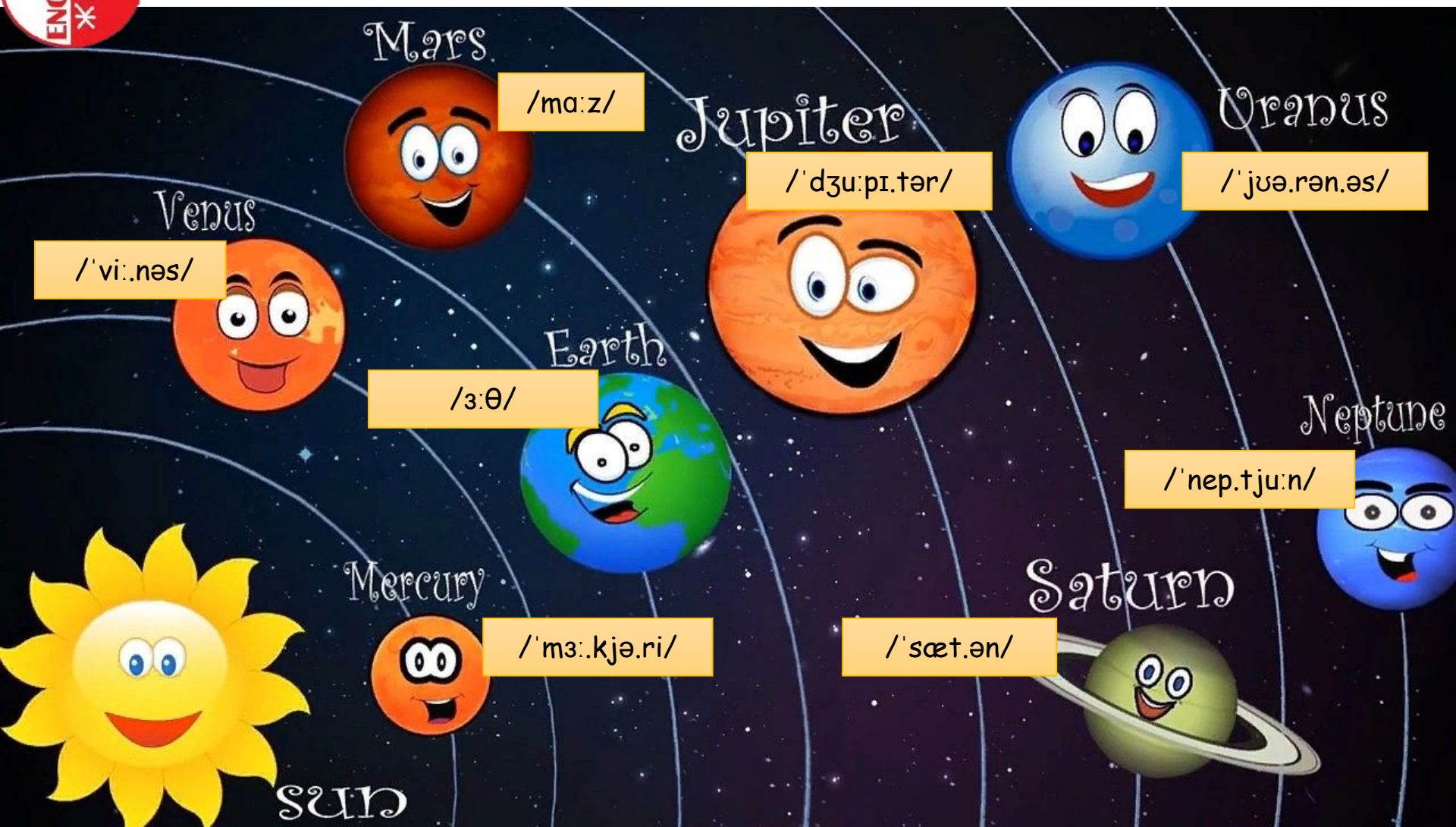
a UFO

a satellite

What is it?



Let's explore the solar system.



Mars

/mɑːz/

Jupiter

/'dʒuːpi.tər/

Uranus

/'jʊə.rən.əs/

Venus

/'viː.nəs/

Earth

/ɜːθ/

Neptune

/'nep.tjuːn/

Mercury

/'mɜː.kjə.ri/

Saturn

/'sæt.ən/

Sun

Complete the sentences with: *planets, moons, comet, galaxy, solar system, satellite.*

* Did you know?

- 1 All the in our are 4.5 billion years old.
- 2 Jupiter has 63 The largest, Ganymede, is bigger than Mercury.
- 3 The stars in the Milky Way, the to which our Sun belongs, number in hundreds of billions.
- 4 The gas tail of a always points away from the sun.
- 5 The first communications orbited the Earth every 2 hours and 37 minutes.

1. planets

2. solar system

3. moons

4. galaxy

5. comet

5. satellite

Close your eyes and imagine you are in a spaceship. Listen to the music. What can you see? How do you feel?



I can see planets and millions of stars. I feel amazed.



I see blackness and stars. Occasionally, I see a planet with different colours. I feel strange and weightless. I feel excited and thrilled to experience outer space.

Before reading learn new words.

прочесывать,
тщательно проверять

настраиваться (на
радиоволну)

без разницы

похищать

ограничивать

луч; светить

в какой-то
определенный
момент

намеренно

обескураживающий

спутник

бездельничать

внеземной

экранная заставка
(на комп)

смотреть фактам в
лицо

обращать внимание

изучать небо через
телескоп

клочок

вспышка

крупинка

продвинутый

гипотеза

Read the title of the text and the first sentence in each paragraph.
What is the text about? Read through and check.



Hello...

Is Anyone Out There?

So, how do you fancy joining in the search for intelligent alien life yourself?

So where do we go from here?

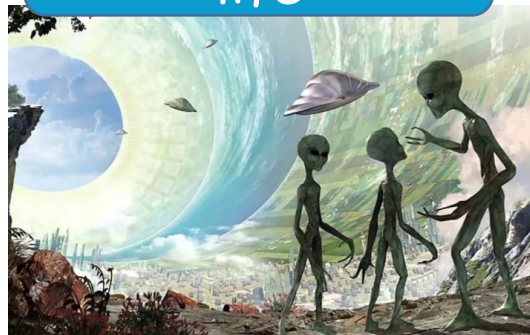
I think the text is about searching for extraterrestrial life and whether it exists.

Have you ever read a story about someone who says they have been abducted by aliens?

In the 1960s, astronomers of the Search for Extraterrestrial Intelligence (SETI) programme began their high-tech **hunt** for extraterrestrial life that continues to this day.

Unfortunately, the scientists may have to face the fact that the possibility of finding what they are looking for is very small.

Extraterrestrial
life



So, how do you fancy joining in the search for intelligent alien life yourself? Well, the 'SETI@home' project allows you to do exactly that. After downloading a clever screensaver, your computer will **analyse** unknown or unusual signals from radio telescopes whenever you are not using it. Millions of people in over 200 countries **E**

So where do we go from here? Well, despite the fact that we have not yet found a shred of **convincing** evidence that alien life exists, one thing is for sure – **F**! But perhaps we're forgetting one important thing. We want to talk to aliens all right, but do the aliens want to talk to us? Only time, perhaps thousands of years, will tell!

radio message containing basic information about **the human race**. It was directed **D** If there is intelligent life there, we will hear from them around the year 52,000!

to a gap. There is one



Text 1

Text 2

Text 3

Text 4

F

4

Match the underlined words/phrases in the text to their meanings below, then explain the words in bold.

at a particular time

on purpose

absolutely sure

accept

draw attention to the fact

small amount

wait doing nothing

taken away

намеренно, умышленно

в какой-то определенный момент

ключок

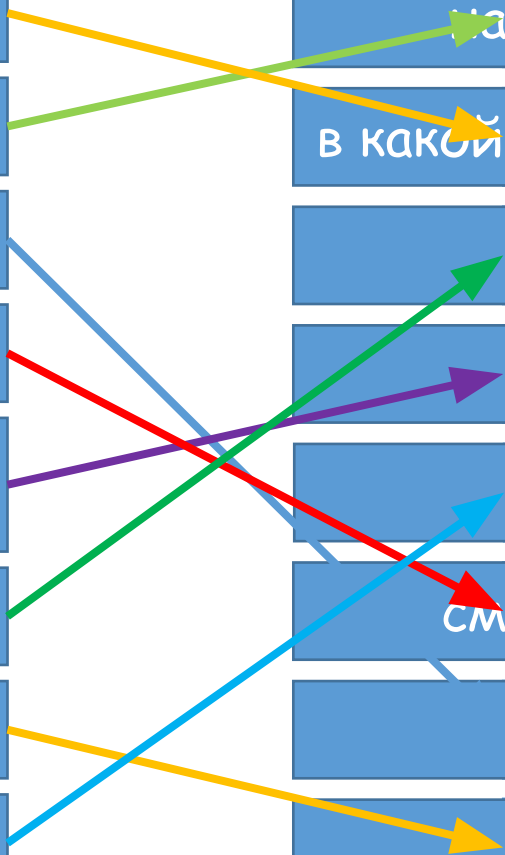
обращать внимание

похищенный

смотреть фактам в лицо

убежденный

ничего не делать



Match the words to their meanings.

all the same



grains of sand



sweeping the skies



analyse



military broadcast



hunt



convincing



civilisations



the human race



Having the ability to persuade

usually found on beaches

Complete the sentences with the words below. Are any of these words similar to those in your language?

• telescope • orbit • radio waves • antenna • laser • beam • signals • satellite • cosmos

1 Can you see that of light? I think it's coming from a

1. beam

1. laser

2 The first was put into by the Russians in 1957.

2. satellite

2. orbit

3 The moon seemed so near when I looked at it through the

3. telescope

4 That radio doesn't work any more. The has broken off.

4. antenna

5 Can you see that flashing light in the distance? Maybe someone is sending

5. signals

6 enable us to send out information through the atmosphere without wires.

6. Radio waves

7 No one can really know the size of the we live in. It's so huge!

7. cosmos

Match the words to form collocations, then use the phrases in sentences of your own. Then, complete the sentences.

- 1 establish contact
- 2 extraterrestrial life
- 3 sweep the skies
- 4 send communication signals
- 5 technologically advanced
- 6 human race
- 7 broadcast message



- 1 Native Americans used to using smoke.
- 2 Japan is one of the most countries in the world.
- 3 My best friend decided to for me on the radio to congratulate me on my birthday.
- 4 After five years of searching for him, I finally with my long-lost friend.
- 5 Many people believe in the existence of .
- 6 One day, the will expand into space.
- 7 No matter how long you using large telescopes, there is always more to discover.

Use the text to make notes to give a 2-minute talk about the SETI programme

The SETI programme

Problems of the SETI programme

How you can take part

The SETI programme started in the 1960s. It uses high-tech equipment and hopes to establish contact with extraterrestrial life. Scientists involved in the programme listen to radio waves using huge radio telescopes. They believe that aliens may be intentionally sending out communication signals to us.

Despite the enthusiasm of its participants, however, the programme faces many problems. For instance, so far nothing has been found. Perhaps alien civilisations lack the technology to communicate over long distances – they may just be wasting their time! If they were to communicate a message to us, we would not get this message for a long time – it takes great patience!

If you would like to take part yourself you can join the SETI@home project. You can use your own computer to search for unknown and unusual signals from radio telescopes.

I think the SETI programme is a waste of time!

Well, for a start, we have no proof that there is any alien life out there.

Yes, I understand why scientists keep sweeping the skies, but it's such a huge task and they have little chance of finding anything.

So would I. I think the money would be better spent on something else.

Why do you think that?

True. But if there is, shouldn't we be trying to establish contact with them?

I agree. I wouldn't have enough patience to keep looking for signs of alien life. I'd give up after a while.

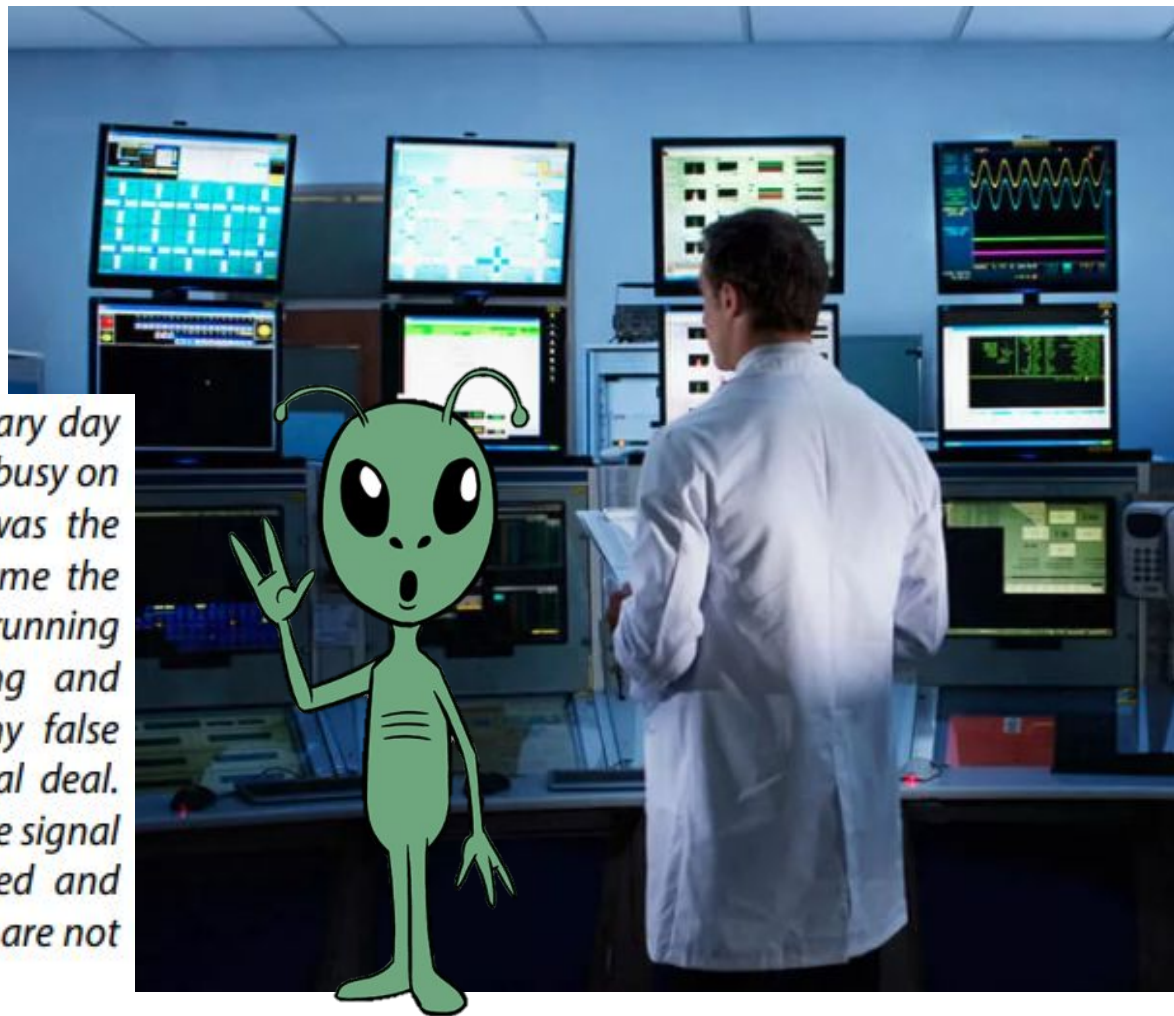
That's true, it could be sent on improving the health or education system.



Imagine you are a scientist working for the SETI programme. Write a description of the day that finally made contact with aliens. Write:

- how it happened;
 - what happened next;
 - how you felt;
- (60-100 words).

It finally happened! It was just an ordinary day and everything was quiet. Everyone was busy on various projects and the only sound was the scratching of pencil on paper. Then came the signal. Everyone went crazy. They were running here and there, telephoning, checking and double-checking. There had been many false alarms in the past but this was the real deal. What happens next is anyone's guess. The signal will need to be analysed and answered and then – maybe – we'll finally find that we are not alone in the universe!



I don't think that it limits us to not search for extraterrestrials. There are so many other important things on our planet we need to focus our attention on, such as environmental issues.



“To confine our attention to terrestrial matters is to limit the human spirit.”

— Stephen Hawking
1942 – 2018

I agree these issues are important, but as human beings we have it in our nature to want to explore our surroundings, like the first explorers that discovered new lands and continents. We have already discovered almost everything on Earth as far as lands and people, so it is only natural that we look beyond our planet.



Fill in the gaps with the correct word from the list below. Then, circle the correct answer.

• comet • planet
• solar system • satellite
• moon • galaxy

- 1 Which is the outermost planet in the solar system,?
☒ A Pluto ☐ B Neptune ☐ C Jupiter
- 2 What is the approximate diameter of the Milky Way galaxy?
☐ A 4.5 billion years ☐ B 1,000 years
☒ C 100,000 light years
- 3 In what year was the first satellite launched into orbit around the Earth?
☒ A 1957 ☐ B 1958 ☐ C 1959
- 4 Which planet is the brightest object in the night sky after the Moon?
☐ A Mercury ☒ B Venus ☐ C Mars
- 5 What is Jupiter's largest moon called?
☐ A Titan ☐ B Pandora ☒ C Ganymede
- 6 What is the name of a famous comet?
☐ A Hawking ☒ B Halley's ☐ C SETI

Workbook

Match the words in the columns. Then, complete the sentences.

- 1 high-tech
- 2 extra-terrestrial
- 3 human
- 4 broadcast
- 5 communication
- 6 radio

- a race
- b signals
- c waves
- d life
- e hunt
- f a message

- 1 Mobile phones use radio waves to transmit signals.
- 2 The Prime Minister is expected to broadcast .. a message to the British people tomorrow informing them of his resignation.
- 3 I'm interested in learning about non-verbal .. communication signals .., so I'm attending a body language seminar.
- 4 Many scientists believe that probability alone suggests there is extraterrestrial life in the universe.
- 5 When the atom bomb was developed, many people feared the human race..... would destroy itself.
- 6 Oil companies are currently engaged in a high-tech hunt to discover the world's next big oil field.

Choose the correct word.

- 1 Astronomers use telescopes/screensavers to explore the universe.
- 2 Please close the curtains. There's a channel/beam of light coming in from the window.
- 3 I'm thinking of having light/laser surgery to correct my eyesight.
- 4 Earth completes its orbit/wave around the sun in 365.26 days.
- 5 When the boat started sinking, the captain sent out a distress signal/shred.
- 6 Scientists believe the cosmos/civilisation is about 15 billion years old.

Complete the sentences with the correct word/phrase from the list.

- point out • shred • all the same • convinced • analyse
- sit around • face the fact • intentionally

- 1 There isn't a shred
..... of evidence to support his statements.
- 2 She knew it was dangerous, but she did it
..... all the same
- 3 I don't understand why you are intentionally
..... trying to make me jealous.
- 4 "We always make sure we analyse
our results very carefully before we publish
them," said the scientist.
- 5 Before you decide to apply, I should
..... point out that we are looking for
someone with experience to fill the vacancy.
- 6 Let's sit around and chat while
we're waiting for Lucy.

- 7 "I think we have to face the fact that
we might not win the election," said the
politician.
- 8 I'm convinced that Katie will come
if we tell her how important this is to us.