



VOCABULARY BANK

Science and Innovation

Science and Innovation | Bank 2: space, medicine and new technology | Cambridge IGCSE ESL 0511

1. Quick confidence check

Before you study the topic, mark the column that best describes your confidence with each word or phrase.

Word or phrase	New to me	I recognise it	I can use it
space exploration	☐	☐	☐
satellite	☐	☐	☐
medical research	☐	☐	☐
treatment	☐	☐	☐
vaccine	☐	☐	☐
technology	☐	☐	☐
robot	☐	☐	☐
digital device	☐	☐	☐
renewable energy	☐	☐	☐
electric car	☐	☐	☐
ethical question	☐	☐	☐
improve lives	☐	☐	☐

2. Vocabulary bank

Here are some useful words, adjectives, verbs and chunks that can be reused in exam answers. If you are not sure of their meaning, check online or ask your teacher.

Category	Useful vocabulary
Space and technology	space exploration, satellite, robot, digital device, communication technology, new technology
Medicine	medical research, treatment, vaccine, medicine, safety testing, improve lives
Future science	renewable energy, electric car, future development, ethical question, artificial intelligence, useful invention
Opinion chunks	In the future, scientists may..., This could improve..., One concern is..., It raises ethical questions because..., The main benefit is...

3. Match the meaning

Match each word or phrase with the correct meaning. Then choose four and write your own examples.

Word or phrase	Meaning
1. space exploration	a. study that aims to improve health or medicine
2. satellite	b. medicine that helps protect people from a disease
3. medical research	c. travelling into or studying space
4. treatment	d. a question about what is right or wrong
5. vaccine	e. a machine sent into space to collect or send information
6. ethical question	f. medical care given for an illness or injury

4. Build useful chunks

Choose useful chunks from the grid. Then write three natural sentences you could use in a speaking or writing answer.

space exploration	send a satellite	new technology
medical research	develop a treatment	test a vaccine
ethical question	improve lives	future development

1. _____
2. _____
3. _____

5. Read in context

Read the text. The bold words are from the vocabulary bank.

Science for the Future

Science can change the way people live. For example, **space exploration** has helped scientists learn more about Earth, weather and communication systems.

A **satellite** can collect information from space or help people communicate across long distances. These technologies are now part of everyday life.

Medicine is another area where science matters. **Medical research** can lead to a new **treatment** or **vaccine** that protects people from disease.

New technology can improve lives, but it can also raise an ethical question. Scientists and governments need to think carefully about safety, fairness and how discoveries are used.

6. Check your understanding

Answer the questions in your own words. Use the vocabulary bank where it fits naturally.

READING CHECK

1. How has space exploration helped scientists?

2. What can satellites do?

3. How can medical research help people?

4. Why can new technology raise ethical questions?

VOCABULARY IN CONTEXT

What does 'treatment' mean in the text?

- A. Medical care for an illness or injury
- B. A machine in space
- C. A type of transport
- D. A school subject

What is the writer's main view?

- A. Science can improve lives but needs careful decisions.
- B. Satellites are useless.
- C. Medicine does not change.
- D. Technology has no risks.

7. Use the vocabulary

Task	What to do
Speaking 1	Describe one area of science that interests you.
Speaking 2	Discuss this question: Should more money be spent on space exploration or medicine?
Writing	Write a short paragraph explaining one benefit of medical research.
Review	Return to the confidence table. Choose one item you want to improve and write a clear example sentence.

8. Topic discussion questions

Use these for pair work, small-group discussion, or speaking-test warm-up practice.

- Is space exploration worth the cost?
- What medical discovery has changed the world?
- Could robots replace some jobs?
- What technology might improve lives in the future?
- Should all inventions be used?

**ANSWER KEY**

Science and Innovation

3. Match the meaning

1. c = travelling into or studying space
2. e = a machine sent into space to collect or send information
3. a = study that aims to improve health or medicine
4. f = medical care given for an illness or injury
5. b = medicine that helps protect people from a disease
6. d = a question about what is right or wrong

6. Check your understanding

1. It has helped scientists learn about Earth, weather and communication systems.
2. They can collect information or help people communicate.
3. It can lead to treatments or vaccines.
4. People need to think about safety, fairness and how discoveries are used.

MCQ 1: A. Medical care for an illness or injury.

MCQ 2: A. Science can improve lives but needs careful decisions.