

ProTalk

Discussion Files

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Language Center

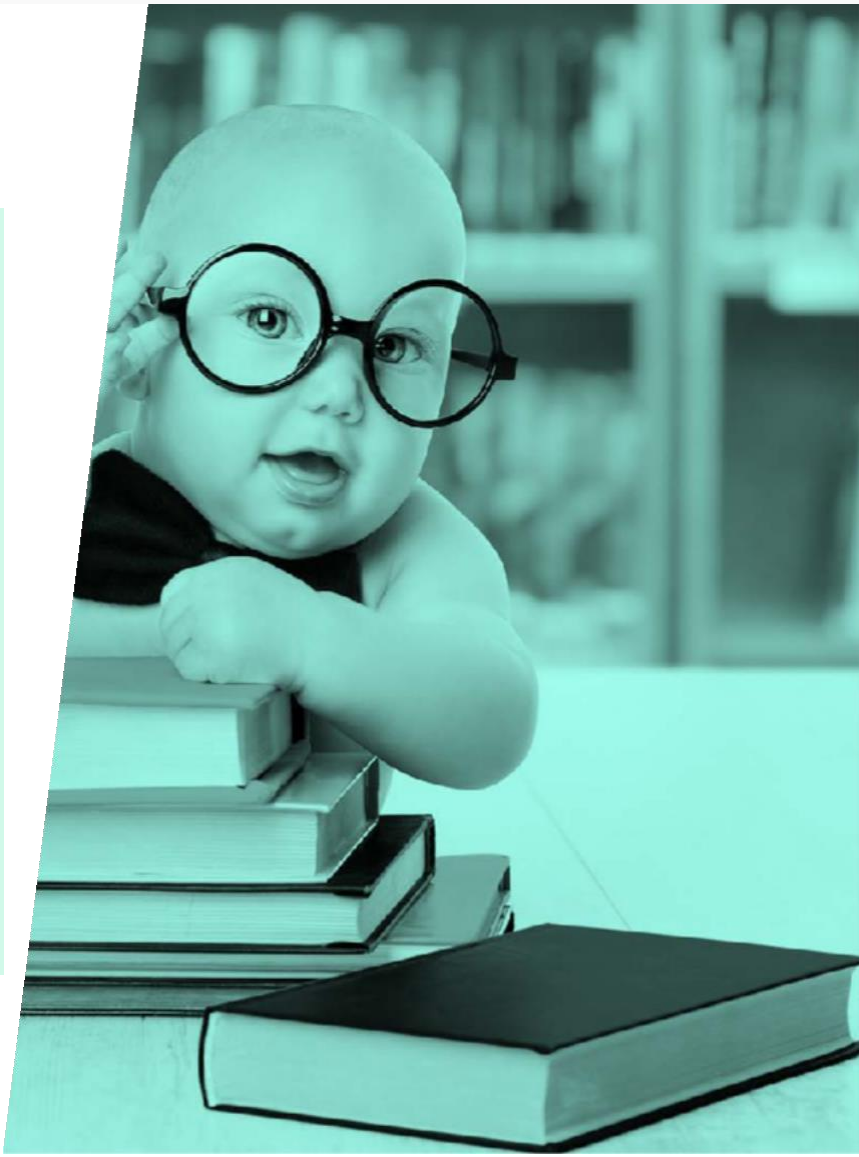
C2. New developements

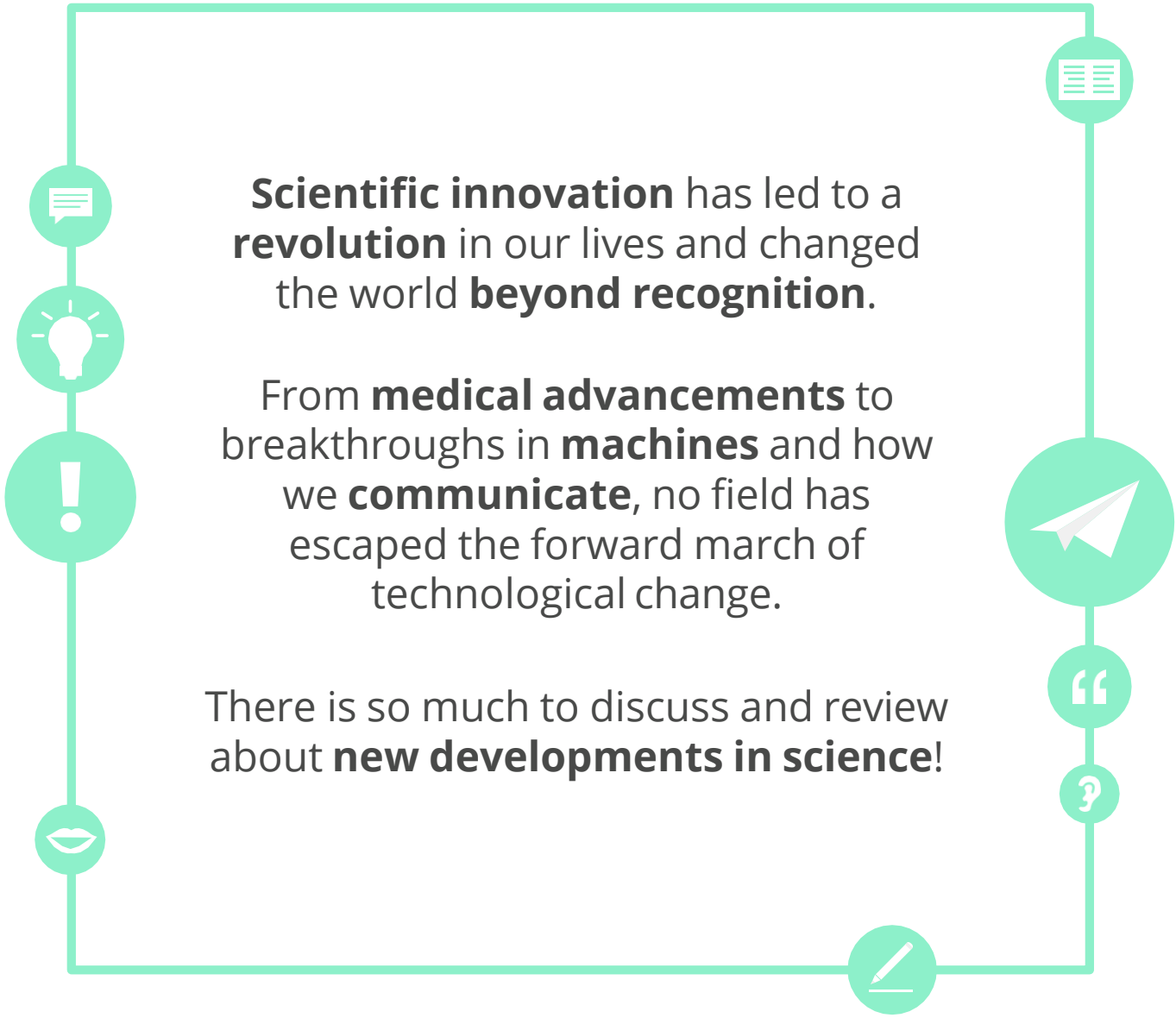
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Goals

- Can talk about new medical research and how science affects my life in detail.
- Can discuss artificial intelligence and express my opinions on the topic.





Scientific innovation has led to a **revolution** in our lives and changed the world **beyond recognition**.

From **medical advancements** to breakthroughs in **machines** and how we **communicate**, no field has escaped the forward march of technological change.

There is so much to discuss and review about **new developments in science**!

Vocabulary review: Discuss the meanings with your teacher and use each in a sentence.



Rebuilding the city has proved to be a **monumental** task.

She is a **remarkable** athlete. No other woman has won so many gold medals.





He had a **profound** impact on my life. It's because of him that I chose to train to be a computer scientist.

Shakespeare's most **notable** works include Romeo and Juliet and Hamlet.



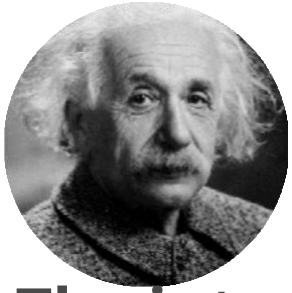
Vocabulary review: Discuss the meanings with your teacher and use each in a sentence.



The scientists had a **breakthrough** during their recent drugs trial.

The physics graduates had an **innovative** approach to their thesis topic.





Albert Einstein and Marie Curie are two of the most **influential** scientists of all time.

The internet has **revolutionised** the way we live our daily lives.



Scientific breakthrough

Can you name any **scientific breakthroughs** which have changed the way we live?



Vocabulary review: Discuss the meanings with your teacher and use each in a sentence.



Thankfully, **sanitation** has greatly improved.

The cleanliness of the hospital has been remarked upon by visitors.





She developed the **chronic illness** at the age of 6. She copes with it incredibly well.

The **pharmaceutical** industry is a commercial industry.



Vocabulary review: Discuss the meanings with your teacher and use each in a sentence.



My grandma has the best **remedy** for heartbreak – lots of food and treats!

Prevention is better than cure.





To get through the operation without any pain, she had to have a strong dose of **anaesthetic**.

Disinfection is imperative in the health and food industries.



Medical advancements

Research and medical advancements mean that people are living longer. However, the disorders below are now becoming more common. Why do you think this is and what can we do to prevent their growth?

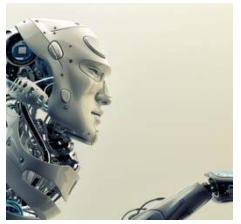
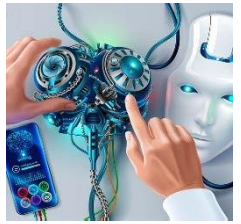
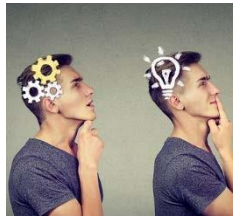
alcohol abuse

drug abuse

social anxiety

obesity

Discuss the meanings with your teacher and use each in a sentence.

robotics	**Robotics** is the science of making and using robots.	
artificial intelligence	**Artificial intelligence** is otherwise known as **AI.**	
cognitive function	**Cognitive function** can also be called mental function. It refers to how the brain perceives.	
enrich	Some people believe that robots will be able to **enrich** our lives.	

Discuss the meanings with your teacher and use each in a sentence.

mass	In physics, **mass** means the amount of matter in an object or the total volume of liquid or gas.	
interaction	I miss having face-to-face **interaction** with real people. Now everything seems to be done online!	
experimental	The band's new album is very **experimental**.	
consequences	If you are going to behave in that way, then you must suffer the **consequences**.	
existence	It is thought that the universe came into **existence** over 15 billion years ago.	
collision	There was a **collision** on the main road. The ambulance has been called.	

Talk about scientific developments

Discuss the discovery and impact of the scientific developments below.
Rank them from most to least influential on today's world.
How does it feel to talk about it now?

antibiotics	electricity	radio
internet	aviation	vaccination
photography	The Higgs boson	The automobile

Talk to the teacher

Your teacher disagrees with your assessment.
They will tell you their top three most influential innovations.
Practise arguing and defending your views.



1. Write a list of evidence to support your opinion. Data and facts will make your argument stronger.

2. Remember to defend your views politely and not to take things personally.

3. Try to bring the argument to an agreeable close.

Useful phrases when expressing your opinion

In my opinion...

The data suggests that...

In my mind...

If you look at the data...



I have to disagree...

My thoughts on this matter are...

According to...

That is an interesting point. However,...

Give your opinion

Practise giving your **justified opinion** based on the information in **one** of the statements below.

Use some of the strategies, questions and phrases from the unit to keep the conversation going.

Try to use the **phrases** and expressions from the previous slide to make your position clear.



We can solve most of the planet's problems through technological progress.

Technological progress will continue to accelerate in the coming century.

Technological innovation can not be sustained without harming our planet and ourselves.

Respond to your teacher

The teacher is going to pose the following questions to you.

Try to respond thoughtfully, reflecting on your learning and understandings from the unit. Using vocabulary from the unit which has been presented on previous slides will strengthen your response.

What is significant about the discovery of the Higgs boson particle?

What is the most influential medical advancement in the last century?

What are some risks that artificial intelligence poses to the future of humanity?

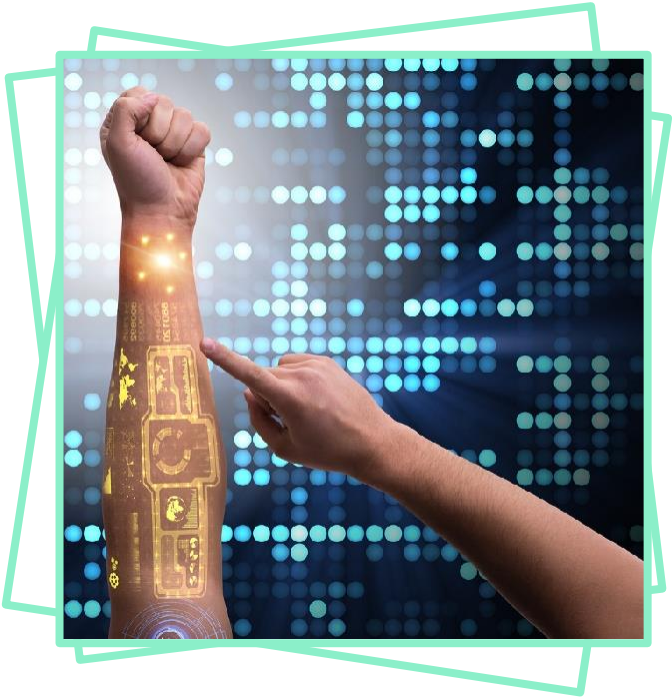
Express yourself

Express enthusiasm, neutrality or scepticism for a future with artificial intelligence.

What are some of the industries which will benefit the most?

How might we be affected by this new technology?

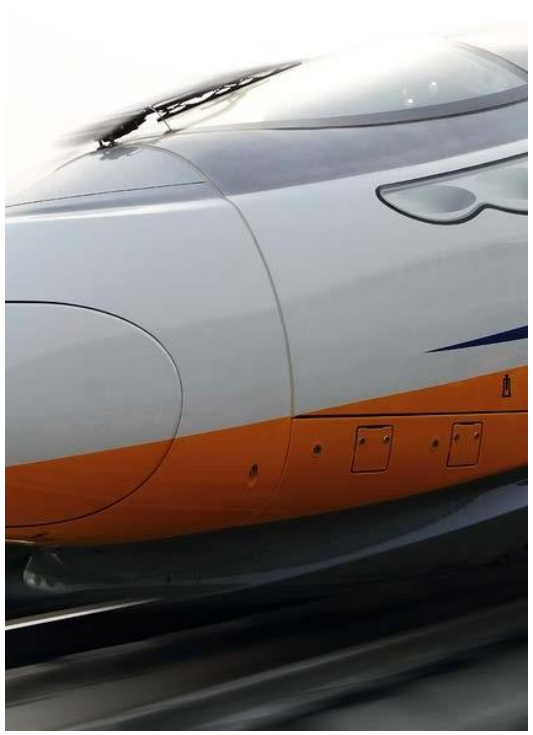




Debate

Discuss the most significant scientific advancements in the following fields. Use vocabulary from the unit and try to justify your opinions with reasoning.

Try to convince the teacher with your argument.



transport

manufacturing

communication

agriculture

Role play

- Your teacher is going to pose you a few questions. Respond in role as the characters below.
  - 1. Doctor,
  - 2. AI developer,
  - 3. Mathematics teacher
  - 4. Physicist at CERN.
- Use your expert knowledge of the following fields of scientific innovation to respond to the questions.

How does recent medical technology affect your job?

What do you think your intelligent machines will be capable of achieving in five years?

What are some challenges of reading and interpreting graphs?

What do you do at the CERN research facility?









Reflect on the unit

Explain to the teacher what is happening in each picture.

- Tell the teacher what you have learned about each topic.
- Use structures and vocabulary you have learned over the course of the unit, including phrasal verbs and adverbs in your response.






Homework

Presentation

Prepare a 5 minute presentation for your teacher summarising what you have learned about scientific advancements in the last century.

Use the topics below to help guide your response.

Include several reasons to support your point of view.

Give your presentation to the class. Answer questions and get feedback.



medical advances in the last century

What are some major human flaws?

scientific challenges for the future