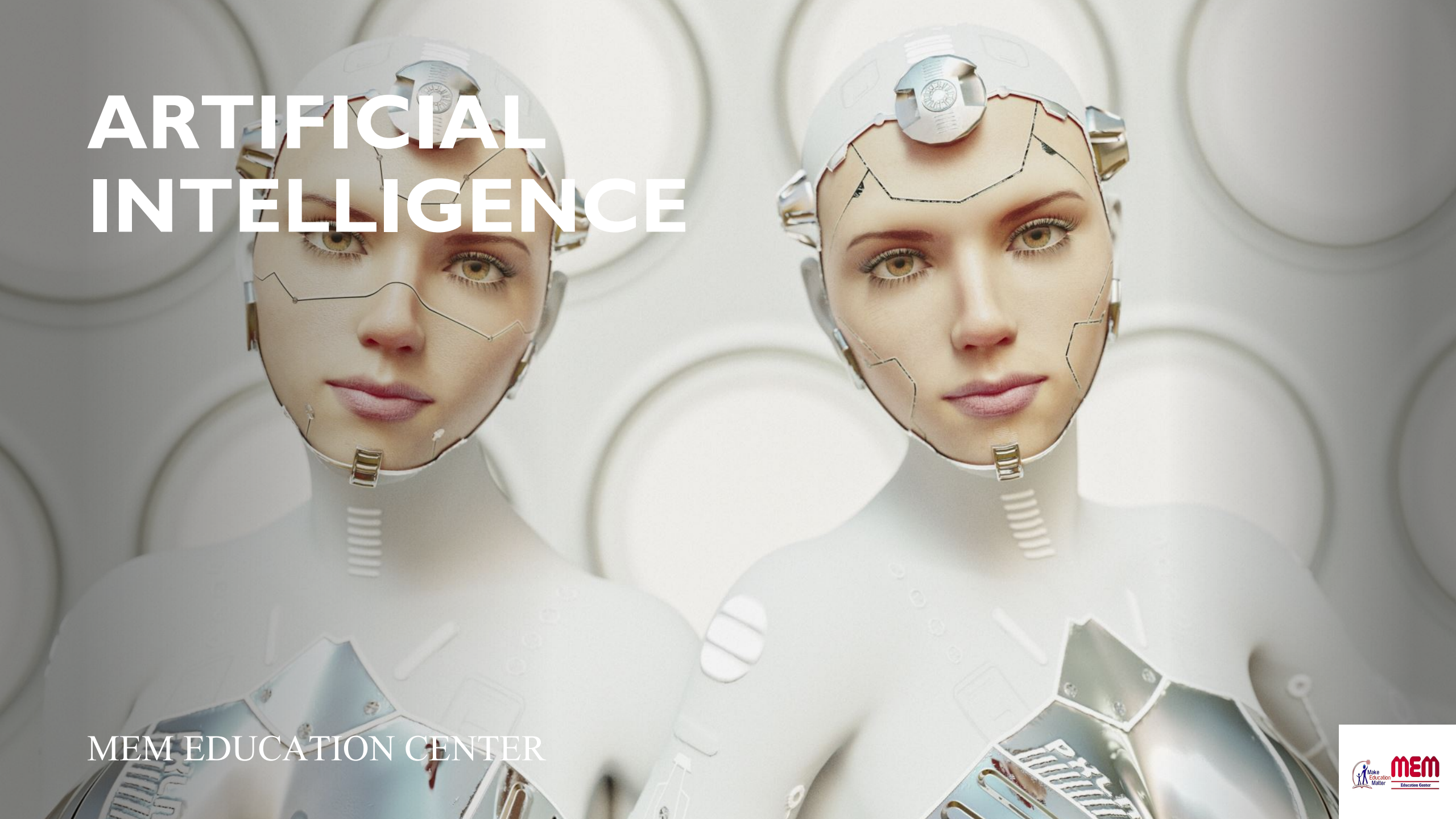


ARTIFICIAL INTELLIGENCE

The image features two identical female robots standing side-by-side. They have a sleek, futuristic design with white and gold-colored bodies. Their heads are covered in a white, segmented helmet-like structure with gold accents. They have large, expressive blue eyes and a calm, neutral expression. The background consists of a series of concentric, light-colored circles that create a sense of depth and a futuristic atmosphere.

MEM EDUCATION CENTER

AI in Everyday Life: Examples

Where can you see A.I. in your everyday life?

- Searching the Internet
- Creating content (images, stories, videos)
- Getting help - virtual assistants (Alexa, Siri, chatbots)
- Algorithms for recommendation services (Netflix, Spotify, Amazon)
- Language translation
- Personalisation (social media, online learning, online shopping)
- Self-driving cars
- Route optimisation (Google maps)

Essential Vocabulary

Artificial Intelligence (n. C/U) / ,ɑ: tɪ fɪʃəl ɪn'tel ɪ dʒəns/
= The simulation of human intelligence by machines

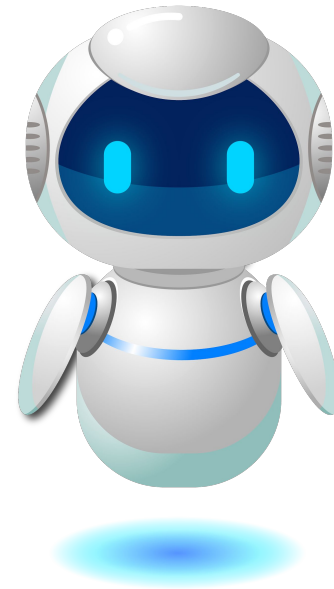
Artificial intelligence can help us _____.

- learn English
- do research
- search the Internet

If something is operated by AI, it is _____.

- AI-driven
- AI-powered
- AI-controlled

AI-driven tools are becoming more and more popular nowadays.



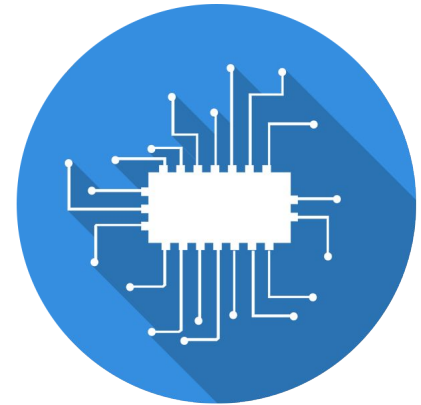
Essential Vocabulary

Algorithm (n. C) /'æɪ l gə rɪ ðəm/

= A set of instructions given to an AI system to help it learn from data

Algorithms are used widely in _____

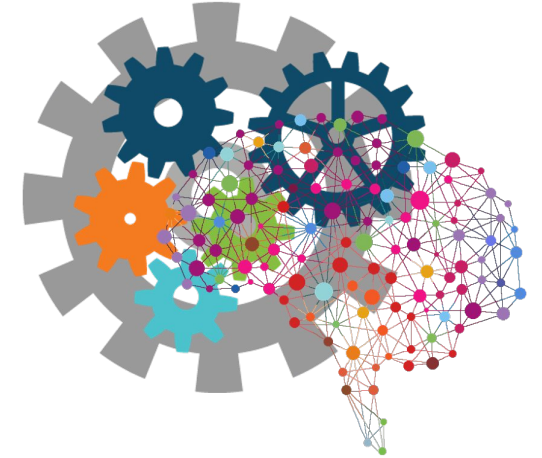
- Marketing
- Social media
- Netflix
- Designing websites



Automate (v.) /'ɔ: tə meɪt/ = to make a process automatic by having machines do it

*e.g., A.I. can help us **automate** a lot of jobs, such as analysing*

Essential Vocabulary



Automatic (adj.) /ɔː tə'mæt ɪk/

= works by itself without human direction

- *I have an **automatic** car because I don't like cars with a gear stick.*

Autonomous (adj.) /ɔː'tɒn ə məs/ = independent

- ***Autonomous vehicles** may become more popular in future.*

Downside (n.) /'daʊn.saɪd/ = a disadvantage or problem

- *The big **downside** is over-dependence on AI, which is a slippery slope to us becoming lazy humans.*

Phrases: Technology & Progress

- compatible with
- all the rage
- talk of the town
- sentient vs sapient
- on a par with
- offload (sth) onto
- hard-pressed
- blow (sb) away
- humanoid look/ appearance
- labour-intensive tasks
- take the wheel
- machine-made vs hand-made
- potential to revolutionise
- integral part
- take giant leaps/ make great strides
- state-of-the-art
- feedback and insights on
- permeate/pervade
- support one's stance
- draw upon
- cater to (sth)
- invade/ violate privacy

AI: Pros

Artificial Intelligence can...

- automate repetitive tasks, freeing up time for humans.
- process and analyse large amounts of data quickly and accurately.
- assist in medical diagnoses and treatment.
- improve accessibility for people with disabilities.
- enhance learning and education through personalised learning.
- improve energy efficiency through smart grids.
- enhance security through surveillance and anomaly detection.
- assist in disaster response and prediction.
- improve transportation through autonomous vehicles.
- enhance creativity through generative design.

AI: Cons

Artificial Intelligence can...

- lead to job displacement due to automation.
- be used for malicious purposes, such as deepfakes or autonomous weapons.
- perpetuate and amplify societal biases present in training data.
- lead to privacy concerns due to extensive data collection.
- create dependency, reducing human skills.
- lead to social isolation due to increased interaction with machines.
- be difficult to regulate due to its complexity and rapid development.
- lead to inequality if access to its benefits is unevenly distributed.
- pose existential risks if it surpasses human intelligence.
- AI decision-making processes can be opaque, leading to issues with accountability.

3 Main Concerns about AI



Bias



Privacy



Job Loss



Topic Specific Collocations



- Machine learning
- Deep learning
- Neural networks
- Autonomous systems
- Data mining
- Natural language processing
- Computer vision
- Algorithmic bias
- Robotic process automation
- Intelligent automation



Topic Specific Model Sentences

- **Artificial intelligence** is transforming the way we live and work.
- Through **machine learning**, computers can learn from data without being explicitly programmed.
- **Deep learning**, a subset of machine learning, uses neural networks with many layers.
- **Neural networks** mimic the human brain to process information.
- **Autonomous systems** can operate without human intervention.
- **Data mining** helps businesses make informed decisions by discovering patterns in large datasets.
- **Natural language processing** enables computers to understand and generate human language.
- **Computer vision** allows machines to identify and process objects in images and videos.
- **Algorithmic bias** can occur when a computer system reflects the implicit values of the humans who designed it.
- **Robotic process automation** is used to automate repetitive tasks.

IDIOMS

❖ **To be on autopilot** = To use a system that operates automatically

e.g., I use Google maps so whenever I travel, my navigation is on autopilot.

❖ **To open (a) Pandora's box** = to create a lot of unexpected problems

e.g., I am unsure about using A.I. in healthcare. I think it's opening a Pandora's box and will lead to ethical problems we are not ready for.

❖ **A slippery slope** = a bad situation that will get worse

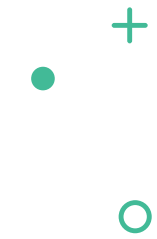
e.g., Relying on AI for hiring new recruits is a slippery slope that could lead to more people being discriminated against.

❖ **To put the cart before the horse** = to do things in the wrong order

e.g., I think using AI-driven teaching assistants before we understand their impact on learning is a mistake. It's putting the cart before the horse.

PART 1

- *Are you interested in robots? Do you like robots?*
- *Do you like robots to work in your home?*
- *Do you want to take a car in which a robot is the driver?*
- *Will robots replace human beings in the workplace completely?*
- *How would robots affect people's lives?*
- *Have you ever watched a movie about robots?*
- *Should we let a robot drive us for long journeys?*
- *What can robots do for us at home?*
- *How are robots going to be used in the future?*



PART 2

Describe a product or application which is based on artificial intelligence.

Break the topic into these parts:

- what artificial intelligence is
- what the product is
- how you got to know about it
- and explain why and how you use it.



PART 2

Describe a time when your computer broke down.

You should say:

- when it was
- what you were doing
- what you did about it
- and how you felt about it.

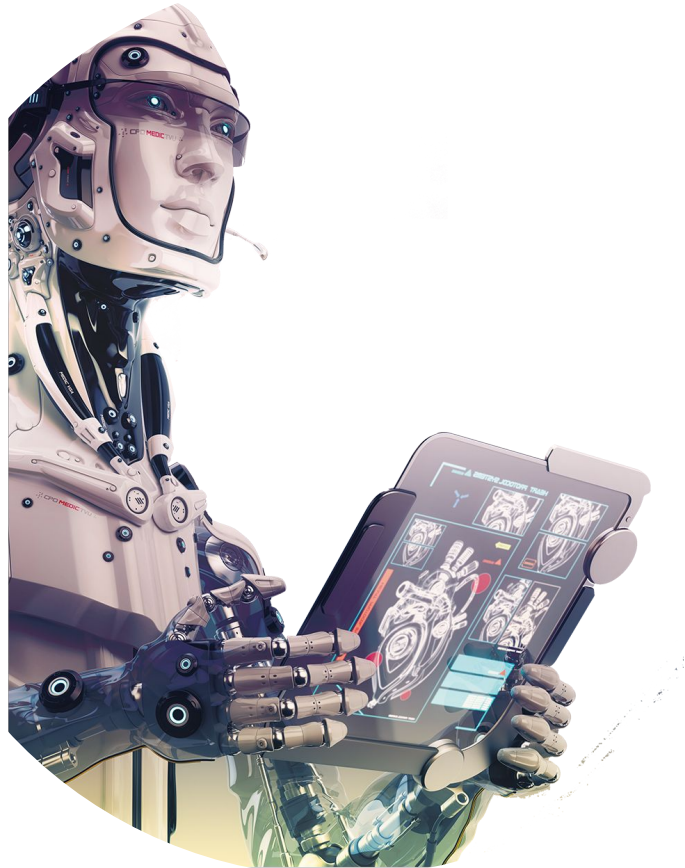


PART 2

Describe a scientific invention that saves time.

You should say:

- what it is
- when it was invented
- how it functions
- and explain why you think it is a great invention.

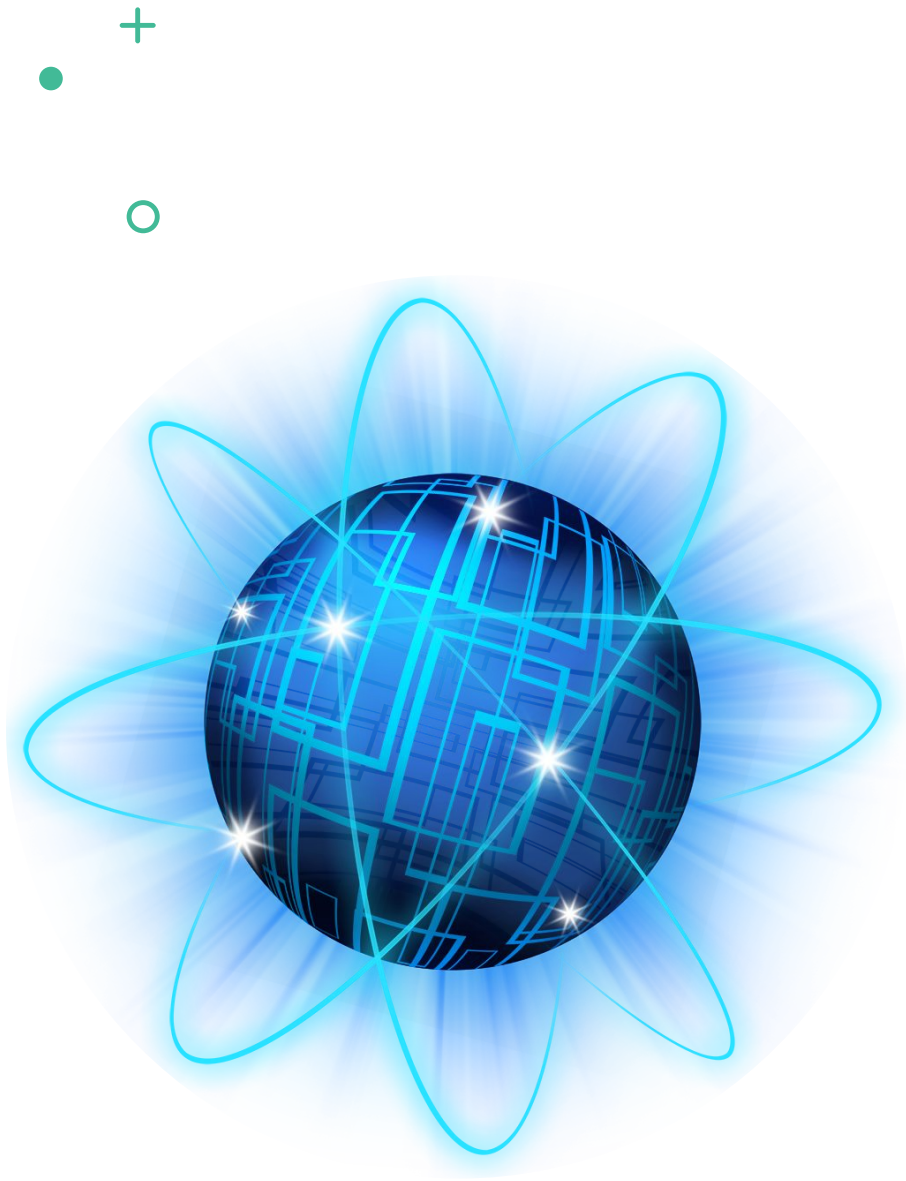


PART 2

Describe a product containing artificial intelligence.

You should say:

- what it is
- what it is used for
- how it is used
- and explain what you think of it

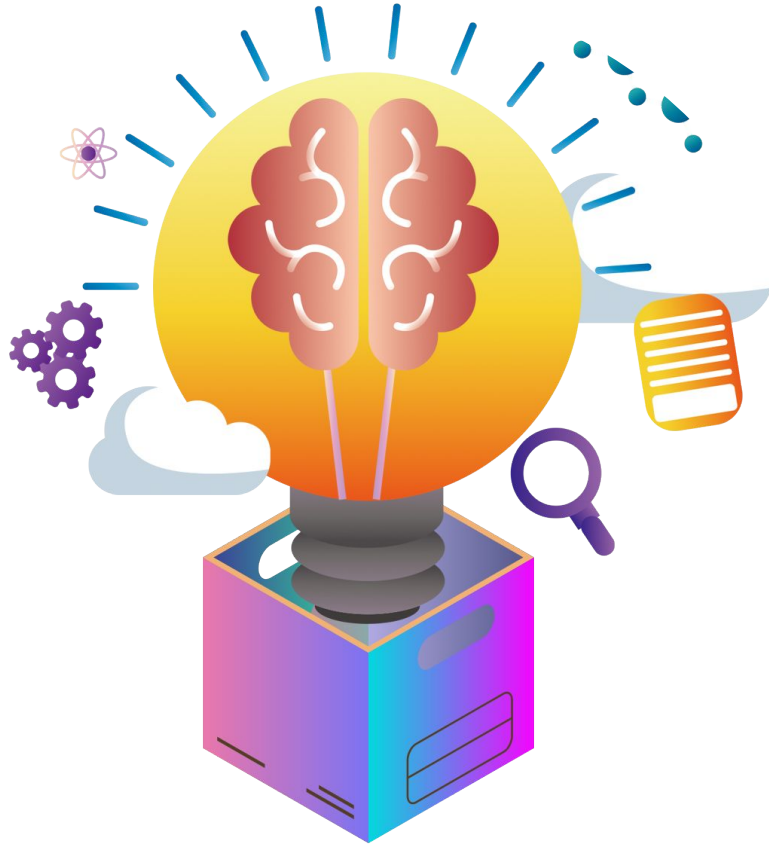


PART 2

Describe a popular modern technology.

You should say:

- what it is
- why it became popular
- how it works
- and explain why you think it is useful.



PART 2

Describe a scientific invention that made life easier and more comfortable.

You should say:

- what it is
- how it works
- why it is useful
- and explain the future of it.

PART 3 (Computers)

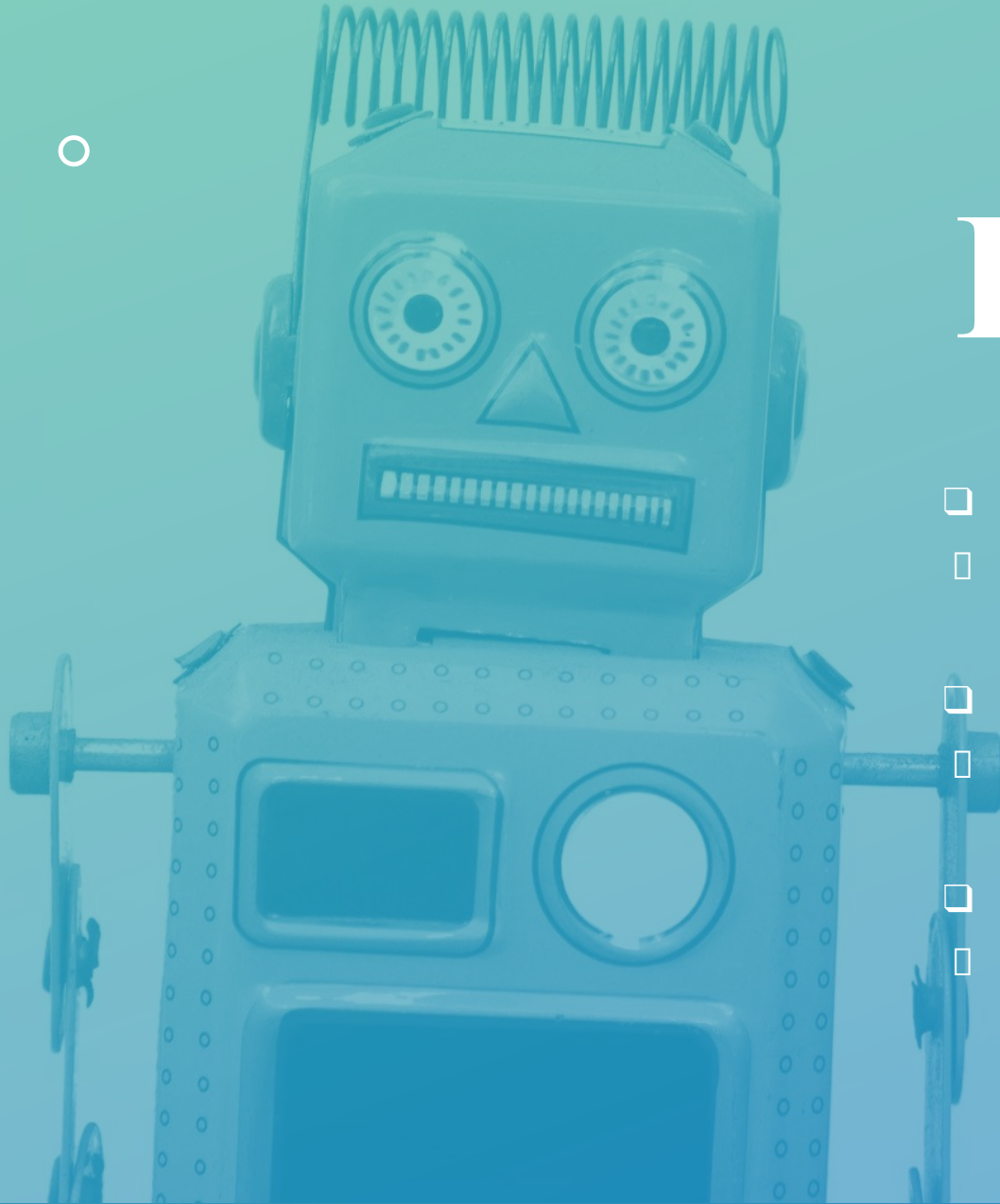
- *What do people use computers for?*
- *What should people do when their computer has problems?*
- *Do you think computers make our life simpler or more complex?*
- *Why can it be difficult for some people to use a modern computer?*
- *Should students be allowed to use computers at school?*
- *What do you think of people who are addicted to computers?*
- *Do you think computers have changed our lives for the better or for the worse?*
- *Will we have reliable computers/technology in the future?*

PART 3 (AI)

- *What is Artificial Intelligence? Give an example.*
- *Why is artificial intelligence important?*
- *Should governments regulate artificial intelligence?*
- *How has artificial intelligence changed our lives?*
- *Is artificial intelligence common in your country?*
- *Are there any cons of Artificial Intelligence?*
- *What is the future of Artificial Intelligence?*
- *Is Artificial Intelligence a good career? Explain*
- *How will artificial intelligence impact our lives in the future compared to its impact now?*

PART 3 (AI-related)

- *How has AI influenced various industries such as healthcare or finance?*
- *Do you think AI will replace human jobs in the future?*
- *What are the ethical considerations surrounding the use of AI?*
- *Can you provide examples of AI applications in education?*
- *In your opinion, what are the potential benefits and drawbacks of widespread AI use?*
- *How can AI contribute to addressing global challenges like climate change?*
- *What steps should be taken to ensure responsible and fair AI development?*
- *Do you think people should be concerned about the potential misuse of AI technology?*
- *How can individuals prepare for a future where AI is more prevalent in various aspects of life?*



Dad Jokes

- ❑ Why don't robots have brothers?
 - ❑ *Because they all have trans-sisters!*

- ❑ Why did the AI go on a diet?
 - ❑ *Because it had too many bytes!*

- ❑ Why is AI actually similar to nature?
 - ❑ *Because it has so many bugs!*