

Artificial Intelligence (teacher's notes)

1. Warm-up (Activity 1) 10 mins

Aims: to break the ice and foster a safe environment for learning.

Procedure: Introduce the topic. Ask students discuss the questions about artificial intelligence in pairs.

2. What is Artificial Intelligence? (Activity 2) 10 mins

Aims: to provide students with listening for detail and speaking practice.

Procedure: Students watch the video, then answer the questions.

Answers:

1. How does artificial intelligence make life easier?

Artificial intelligence is already making our lives easier in a lot of ways today by automatically gathering and analyzing data.

2. What examples of artificial intelligence do we use in everyday life?

Voice assistant on our smartphones, perfect product suggestions in an online shop or predictive maintenance.

3. How does our Facebook feed suggest what will interest us?

The algorithm takes the flood of data, filters out what's most likely to interest us and plays it for us at the top of the page.

4. What is the Internet of Things?

All machines will be networked together and will produce data that will yield a valve quantity of data that will have to be analyzed

5. What is Mindsphere?

It's a cloud-based open IOT operating system like android for your smartphone but for industry that makes it possible to gather and analyze data for example in order to constantly optimize the operation of a gas turbine.

3. Modern Robots (Activity 3) 10 mins

Aims: to provide students with speaking and listening practice.

Procedure: In pairs, students discuss modern robots and for each write 3 things they think it can do. Then students watch the [video](#) and check their answers. Then each students says which robot they found to be the most interesting and why.

Answers:

Robot 1. Atlas. Commissioned by the Pentagon, and engineered by Boston Dynamics, this disaster rescue dynamo is built to perform the heroic task of saving lives without risking its own.

Robot 2. Termite Robots. These little guys are designed to do tough, tedious building work and their way of working was inspired by termites. The bots assess their environment, take cues from one another, and get to work even though they haven't a clue of the bigger plan.

Robot 3. The Mab. It flies around your house, senses where it's dirty, and then deploys a bunch of tiny little cleaning bots to make the area sparkle. It's just a concept but was enough of one to win the Electrolux Design Lab competition.

Robot 4. Curiosity. NASA's Mars rover has accomplished far more than any other robot can imagine so to speak. It's only been on the Red Planet for about a year and a half, but has already determined that there could have once been life there.

4. 10 facts about Artificial Intelligence (Activity 4) 15 mins

Aim: to provide students with reading for gist practice.

Procedure: Students read the article about artificial intelligence and come up with a headline for each paragraph.

Possible Answers:

1. People first got the idea about AI in the 20th century
2. AI can trace its roots pretty far back
3. Alan Turing was a huge influence on AI
4. Formal AI research started in the 1950s
5. Natural language processing is key to AI
6. Autonomous vehicles need AI
7. Investors are funding new AI companies
8. Big tech companies are betting on AI
9. AI-powered robots can think together
10. Some robots can socialize
11. AI is polarizing

5. Debate (Activity 5) 10 mins

Aim: to provide students with speaking practice.

Procedure: Students debate which of the famous fictional robots is more useful: R2D2 or C3PO.

6. Sum up 3-5 mins

Summarise the lesson and tell students what results they have achieved (Now you can ... After our reading and speaking lesson you will be able to....). Ask them if they have any questions. Conduct delayed error correction if needed.