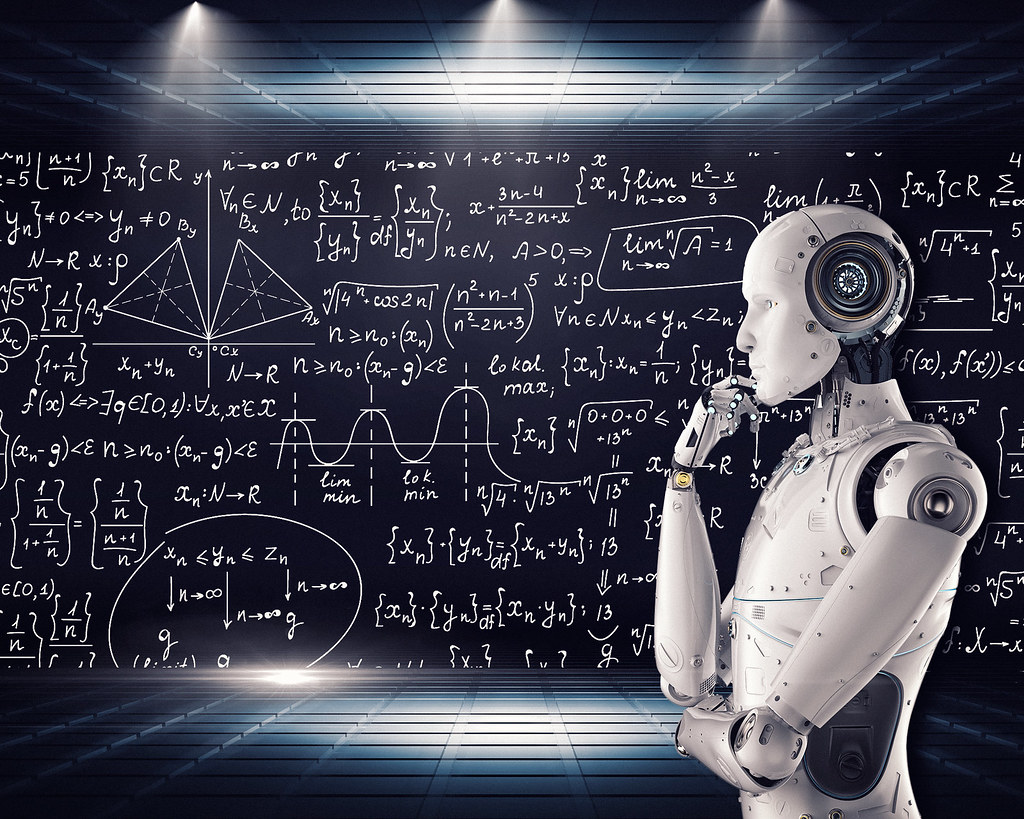
**AXE 6: SCIENTIFIC INNOVATIONS & RESPONSIBILITY A.I : FRIEND OR FOE?**

**KEY QUESTION: To what extent can Artificial Intelligence change the way we live?**

**MISSION 1: WARM-UP**

1. Are you interested in robotics?
2. What is AI **/eiai/?**
3. Can you list examples of AI we use in everyday life?
4. What do you think is the most important technological advancement ever made?
5. What other technological advancements/inventions would you like to see in the future?

**MISSION 2: Listen and complete the following video by The Royal Society Organization**Source Link: <https://www.youtube.com/watch?v=nASDYRkbQIY>

These are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ times for Artificial Intelligence or AI. But what is AI?

AI is the science of making machines \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ using **algorithms** to allow computers to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ problems which used to be solved only by humans. AI already \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ search engines, online shopping recommendations, and digital assistants.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ can use AI to calculate the exact shape and volume of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, **revolutionizing** treatment.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ use AI to find and evaluate exoplanets in distant solar systems.

And unhappy motorists are using it to discover if they can **overturn** parking \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

The possibilities of AI are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, from fraud prevention to developing new strategies to address climate change. AI technologies today are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ at analyzing **vast** amounts of data to learn to complete a particular task, a technique called Machine Learning.

But AI is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_transferring what it’s learned from one type of task to another; learning **abstract** concepts; and ‘one-shot’ learning where a general rule is learned from a single experience -the sort of **broad** intelligence humans \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

But even without achieving this \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ intelligence, AI \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. How might AI affect work? People will still be needed in the workplace, but jobs and roles \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ change as some tasks become **automated** and new jobs are created. There is a risk that, at least in the short term, this could \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, if some people are **disproportionately** affected and benefits aren’t widely shared across society. And what about social \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_? **Bias** coming from AI systems, even if unintentional, could disproportionately affect some social groups, influencing anything from job **prospects** to treatment by the justice system.

Technology can play a role in helping to manage \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_; but people need to **address** big questions about how society wants to use AI.

Technology with AI at its heart has the power \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. The more of us that engage in shaping its development, the more chance we have to **ensure** a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ future with AI.

**MISSION 3: Vocabulary**

Match the words in A to their definitions in B.

**ANSWERS:**

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

**Column A Column B**

1. Algorithm*s* a. Big/immense
2. Revolution*ize* b. computerized/machine operated
3. Overturn c. Sets of rules, calculations, etc.
4. Vast d. to secure/ make certain
5. Abstract e. not equally given/done
6. Ensure f. prejudice/ unequal treatment
7. Automate*d* g. options/opportunities
8. Disproportionate*ly* h. to reverse/ to turn
9. Bias i. opposite of very specific/particular

10.Prospect*s* j. to change in a radical/big way

**MISSION 4: Find the English equivalents in the document we have just studied.**

|  |  |  |  |
| --- | --- | --- | --- |
| **ENGLISH** | **FRENCH** | **ENGLISH** | **FRENCH** |
|  | soulever un problème |  | une contravention |
|  | traiter un problème |  | immense |
|  | résoudre un problème |  | automatisé |
|  | permettre |  | plus juste, plus équitable |
|  | garantir |  | impartialité, équité |
|  | annuler |  | parti pris, préférence |
|  | alimenter |  | perspectives d’emploi |
|  | exceller dans |  |  |
|  | être probable que |  |  |

**MISSION 5 : Complete this article using *might, will* or *be going to*, either in the affirmative or negative form.**

**Could AI replace teachers ?**

Let’s imagine a full humanoid robotic AI educator at the front of the room. Surely, this AI is less likely to make content area errors. It  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** be able to access absurd amounts of information in the blink of an eye. It would be able to listen and answer questions. It **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** soon even have the ability to read the faces of students and respond accordingly.

What it **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**be able to do however is combine these elements along with a thousand other human variables to create meaning. So teachers’ jobs are safe for the near future.

But based on what is already happening in other countries some things **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** change, and AI **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** play a part. And although robots **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** be sitting in the teachers’ chairs, they **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** be joining teachers quite soon as teaching assistants.