

Why Consider AI Careers: Classroom Lesson Plan

Lesson Topic:

Considering AI Careers and AI's Impact on Our Everyday Lives

Lesson Objective:

Students will be able to define AI and describe its current applications.

Materials:

- Chart paper, divided into two columns
- Writing utensils, at least two colors
- Projector or other method to watch the movie

Advanced Preparation:

- [Preview the video](#) before sharing it with your students [3:28].
- Divide chart paper into two columns.

Warm-up Activity:

1. Ask students what the acronym AI stands for. Write "Artificial Intelligence (AI)" as the title on a sheet of chart paper.
2. Ask students to work with a partner to define artificial intelligence. This definition could also include examples of artificial intelligence or careers in the artificial intelligence field.

3. Ask students to share their ideas with the class. Work together to come up with a shared definition for artificial intelligence.

Note: Merriam-Webster provides two definitions. At this point in the lesson, anything similar to either of these is fine!

- a) a branch of computer science dealing with the simulation of intelligent behavior in computers
 - b) the capability of a machine to imitate intelligent human behavior
4. Write the shared definition for artificial intelligence in the first column on the chart paper.
 5. Tell students that in the video, they will hear one role model say, "Most of us might think that AI is the future, but it's actually currently our reality."
 6. Ask, "What types of things in our daily lives include AI?"
 7. Title the second column of the chart paper "Examples of AI in Real Life". Record student's ideas in this column.

View the Video: "Why Consider AI Careers"

1. Tell students they will be watching the video titled, "Why Consider AI Careers".
2. Explain that the video presents role models talking about the role of AI in our current lives and the importance of having women pursue careers in the AI and robotics field.
3. Tell students to listen for additional examples of AI in real life that can be added to the chart paper from the warm-up activity. Students can take notes if desired. View the video together.
4. View the video again; this time, invite students to formulate questions or comments about the ideas discussed in the video and to be prepared to discuss these after viewing the video.

Video Follow-up:

1. Ask students to offer their questions, comments, reactions and responses to the video.
2. Ask students to list additional examples of AI in real life that they learned about in the video. Add these examples to the chart paper from the warm-up activity using a different color pen.
3. Review the shared definition for artificial intelligence and add to the definition as needed to include anything additional learned from the video. Use a different color pen for anything that is added.
4. Ask students to talk to a partner about why they are interested or not interested in continuing to learn about careers in the fields of AI and robotics.
5. Close the lesson by asking students to share their responses. Encourage students to continue exploring careers in this field by sharing their ideas and questions about AI and robotics careers with family and friends.

Extension Activities:

1. Use the “Related Questions to Explore” as discussion springboards or writing prompts to help students further explore AI careers.
2. Encourage students to use the Career Girls website and other online resources to compile a list of careers in the AI and robotics field. Information on the list could include career title, career prospects, job responsibilities, salary expectations, and educational requirements.

Related Questions to Explore:

- How do you use AI in your daily life? Did you know that you were using AI?
- Why is it important to encourage women and girls to pursue careers in the AI and robotics field? Why do you think women and girls might not know about or consider a career in this field?
- Why is it an exciting time to be in the AI and robotics field right now?
- How does AI solve problems? What are some examples of the types of problems that AI could solve?
- How do you think AI and robotics will shape the future of society? List some examples of things that AI and/or robots might do in the future.



Ideas for Future Lessons/Activities Related to Careers in AI:

1. Identifying Careers in the AI Field: What Do They Do and Why?
2. Fact vs. Fiction: Separating Hollywood's AI from Real Life AI
3. Women Who Have Overcome Challenges: Breaking into AI
4. Conducting and Recording Interviews with Real Life Women in the Field of AI
5. Algorithms and Equations: The Intersection of Math and AI
6. Artificial Intelligence and Ethics: Why Would Ethicists Be Involved in Artificial Intelligence Programs?
7. Benefits and Risks of Artificial Intelligence: Siri, Self-driving Cars, Robo-advisors, and More!