Explore Careers in AI: Classroom Lesson Plan

Lesson Topic:

Discovering Careers in AI

Lesson Objective:

Students will be able to list careers in the field of AI and describe various job responsibilities associated with these careers.

Materials:

- Copies of "Exploring AI Careers" worksheet, enough for each student
- Writing utensils
- Books, magazines, and/or the internet for further research
- Projector or other method to watch the movie

Advanced Preparation:

- Preview the video before sharing it with your students [4:29].
- Make copies of "Exploring AI Careers" worksheet.

Warm-up Activity:

1. Tell students that they will be watching a video about careers in the field of artificial intelligence.
2. Ask, "What is artificial intelligence?"

![career girls logo](career girls)

3. Discuss students' answers and craft a class definition. (An appropriate class definition could be, "The ability of a computer program or machine to think and learn.")

4. Introduce the **Vocabulary Word List** from the video. Have students circle the terms they are familiar with and look up the definitions of those they are not familiar with. Direct students to record their own definitions for the words they are familiar with and the dictionary definitions for those they are not.

5. Use this opportunity to clear up any misconceptions regarding word meanings as they relate to artificial intelligence.

View the Video: "Explore Careers in AI"

1. Tell students they will be watching the video titled, "Explore Careers in AI".

2. Explain that the video presents role models discussing their jobs in the field of AI.

3. Provide students with a copy of the "Exploring AI Careers" worksheet. Briefly explain that the role models will hold many of the careers listed on the worksheet.

4. View the video together and have students take notes on the "Explore AI Careers" worksheet.

5. 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.

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2. Review the AI careers that were discussed during the video including associated job responsibilities. Ask students to add any additional information discussed onto their "Explore AI Careers" worksheet.

3. Tell students that there are many other careers in the field of AI.

4. Provide students with books, magazines, and/or devices with internet access to further research the careers mentioned in the video as well as at least one other AI career (two blank rows are provided). All information should be recorded on their worksheet. Information on the additional AI career should be listed in one of the blank rows.

5. Bring students back together to discuss the information that they gathered. All students should have completed the worksheet by adding additional information from their research and the class discussion.

6. Ask students to take turns sharing the extra AI career not mentioned in the video that they discovered through their research. If desired, a list of these additional careers and their associated responsibilities can be created to hang in the classroom.

7. Close by asking, "Which AI career sounds the most interesting to you? Why?" Allow students to share their ideas.

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Extension Activities:

1. Use the "Related Questions to Explore" as discussion springboards or writing prompts to help students further explore careers in artificial intelligence.

Related Questions to Explore:

• Compare and contrast the careers discussed in this film. What types of skills might you need for each career? Explain your answer.

• What kind of woman or girl would be successful with an AI career? How do you know?

• What could you do now to start preparing for a career in AI? How will doing these things now help you in the future?

• AI is part of our everyday life. How do careers that are not directly related to AI, such as taxi drivers or TV actors, also use AI? How do you use AI?

• How do people with careers in AI work to solve problems or help humans? Is this a big or small part of their job?

Algorithm

Data

Drone

Robotics

Autonomous

Neural networks

Machine learning

Ideas for Future Lessons/Activities Related to Careers in Artificial Intelligence:

1. Career Paths in Artificial Intelligence: How Do You Get Where You Want to Go?

2. Educational Requirements for a Career in Artificial Intelligence: What Do I Need to Learn to Work in AI?

3. Conducting and Recording Interviews with Real-Life Inspiring Women Who Have Careers in AI

4. Research Project: Learning About the Top AI Experts

5. Creating a Timeline of Artificial Intelligence

6. What's Next? Thinking About the Future of AI Careers

7. Soft Skills Required for an AI Career: Preparing Myself for my Future Career

Exploring AI Careers

Job Title	Job Responsibilities	Education Requirements	Cool Projects You Might Work on
Machine Learning Scientist			
AI Researcher			
AI Engineer			
Data Operations Manager			
Robotics User Experience Designer			
AI CEO			