📔 Student Lesson

Name: _____ Date: _____

Ethics in Robotics and AI

Learning Objective: I can analyze the ethical implications of using artificial intelligence in robotics.

STEP 1: WATCH & TAKE NOTES

📽️ Visit **ilesson.co** and enter the code: **62al**. Take good notes in the space below! ⬇️

⭐ Key Ideas ⭐

1. The rise of humanoid robots is linked to generative AI, which allows robots to _____ and _____ their surroundings, making them more adaptable.

2. The United States is focusing on robot _____ and _____, while China is focusing on _____ and cost.

3. Humanoid robots are designed to operate in environments built for _____, offering versatility and familiarity.

STEP 2: PRACTICE

Partner(s): _____

With classmates (if possible), answer the questions below. Use a separate sheet of paper if needed.

Q1. What is one key difference between humanoid robots and industrial robots, as discussed in the video?

Q2. According to the video, how has generative AI contributed to the advancement of humanoid robots?

Q3. What is the name of the AI system powering Figure's robots, and what does it combine?

Q4. What are some advantages of using humanoid robots compared to purpose-built machines?

Q5. How does Tesla train its Optimus robot?

Q6. What is Boston Dynamics' Atlas robot known for, and what recent change has been made to its actuators?

Q7. What is a 'large behavioral model' as developed by Boston Dynamics and the Toyota Research Institute, and what is its purpose?

Q8. According to the video, what percentage of a humanoid robot's value is attributed to its AI chips and software?

Q9. What is Gemini Robotics, as mentioned in the interview with Carolina Parad from Google DeepMind?

Q10. What are the different approaches that the US and China are taking in the development of humanoid robots?

Q11. What is the 'Made in China 2025' policy aiming to achieve in the robotics industry?

Q12. Which of the following is NOT a company mentioned in the video that is developing humanoid robots?