Grade 11 – Robotics Lesson 1 Worksheet

A. Engage (All Students)

1. Where have you seen robots?

2. What do robots do? Give 2 examples.

B. Explore (Differentiated Tasks)

🔽 Below Level: Match the robot to its job:

• Vacuum Robot → _____

• Factory Robot → _____

🔹 On-Level: List 3 robots and explain what they do.

1. _____

2. _____

3. _____

🔺 Above Level: Explain how one robot works using Input → Process → Output.

C. Explain

Fill in the diagram:

Sensor → _____ → Actuator

D. Elaborate

Design your own robot:

Name: _____

Function: _____

Where used: _____

LIVEWORKSHEETS

E. Evaluate

1. What is a robot?

2. What is the role of a sensor?

Assessment Rubric

Criteria	Excellent (4)	Good (3)	Needs Improvement (2)
Understanding	Clear and accurate	Mostly correct	Limited understanding
Creativity	Innovative idea	Some creativity	Basic idea
Explanation	Clear IPO explanation	Partial explanation	Unclear
Participation	Active	Moderate	Low

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