

Name:

Date:

Class:

Robot Arm Worksheet Answer Key

Part 1: Understanding Robotic Arms

Match the term with the correct description:

- A. Gripper (2)
- B. Base (3)
- C. Joint (1)
- D. End Effector (4)

1. Joint The point where movement occurs between links.
2. Gripper The "hand" that picks up or places objects.
3. Base The part that allows the entire arm to rotate.
4. End Effector The tool or mechanism attached to the end of the robotic arm.

Part 2: Programming Logic Basics

Fill in the blanks:

1. In programming, an instruction that causes the robot to wait before the next step is called a delay.
2. A loop tells the robot to repeat a command multiple times.

Check all that apply:

When writing code to pick up an object, which three actions might be needed?

- Rotate (✓)
- Delay (✓)
- Grip (✓)
- Fly ()

Reflection Question

What do you think will be the most challenging part of controlling the robotic arm, and why?

Answers will vary.

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