

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.