

Name:

Date:

Class:

Exploration Activity Worksheet

Exploration Activity

Coordinate Plane Exploration with mBot2

Part 1: Vocabulary & Labeling

Term	Definition	Labeled (✓)
X-axis		
Y-axis		
Origin		
Quadrant I		
Quadrant II		
Quadrant III		
Quadrant IV		
Ordered pair		

What is the origin? _____

How do you write an ordered pair? _____

Part 2: Exploring Movement

Move along x-axis: What changes? _____

What stays the same? _____

Move along y-axis: What changes? _____

What stays the same? _____

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Part 3: Navigate to Coordinates

Coordinate	Quadrant	Reached (✓/X)
(3,2)		
(-4,1)		
(-2,-3)		
(5,-2)		

Explain how you reached one point:

Part 4: Reflections

Original	X-Axis Reflection	Y-Axis Reflection
(3,2)		
(-4,1)		
(2,-5)		

Patterns noticed:

Part 5: Challenge

Your coordinate: _____
x-axis reflection: _____
y-axis reflection: _____

Reflection: What did you learn?

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