Name:

Date:

# NeuroMaze Guide

## **Guiding Questions:**

- What is the ultimate goal of your robot?
- What constitutes successful maze navigation?
- What constraints must you work within?
- How do different maze-solving algorithms work?
- What sensors are available on your Cutebot?
- What are the key challenges in maze navigation?

### **Design Considerations:**

• How does the engineering design process guide your work? Include descriptions for each step of the process.







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- How will the robot detect walls?
- When should it turn vs. go straight?
- How will it recognize the finish line?
- What speeds work best for different actions?





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#### **Data Table**

Trial	Successful	Issues Observed	Modifications Made

## **Design Checklist**

- Flowchart completed
- Basic movement code written
- Sensor integration completed
- Navigation logic implemented
- Testing data collected
- Optimization performed
- Documentation finished
- Reflection questions answered



