Name Class Date Date Class	Name:	Date:	Class:
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Sensing Your Surroundings Worksheet

Exploration and Data Collection

- 1. Build the robot design as described in the Sensing Your Surroundings Building Instructions.
- 2. Explore the sensors, referring to the chart below. Fill out the chart as you go.

Program	Sensor Used	External Stimulus	Response
Detect Color			
Detect Distance			
Detect Sound			
Detect Touch			

3. Brainstorm with your team: For what real-world purposes might these sensors be us	sed?
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To detect color:

To detect distance:

To detect sound:

To detect touch:

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Cr	eative Thinking		
	For each sensor used, analyze its exter Is each robot sensor similar to a human		sense is each robot sensor similar?
2.	Do any animals have senses similar to	the ultrasonic sensor? Name	e them.
3.	What are some applications of these te specific tasks?	chnologies? In biosensing?	In engineering? In performing any
4.	How can engineers use sensors to creat examples of existing engineered technical		ful in society? What are some