## **Sound Intensity Worksheet**

- 1. Measure each sound with the sound sensor approximately 6 inches away from the source of sound, then approximately 12 inches away.
- 2. Use a ruler to measure each distance.
- **3.** Take note of what happens to the sensor reading when the distance to the sound changes.
- 4. Use the table below to record your data on the loudness of the various tested sounds, and include some of your own choices for sound-making sources in the blank cells.

	NXT Robot Sensor Reading	
Sound Source	6-inch distance	12-inch distance
no sound		
clap		
soft whistle		
loud whistle		
telephone ring		
vacuum cleaner		

Notes:

Name: \_\_\_\_\_

5. Using your recorded data, create a scatter plot of the sound measurements for both distances. Compare the two and try to include a line of best fit to analyze the relationship of the two.