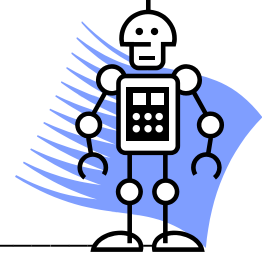


Putting Robots to Work with Force & Friction Activity – Making Robots Work Worksheet



Pre-Experiment Questions

1. How can machines help us to move objects?

2. What factors can make it easier or harder to push an object forward?

Data Collection

Bottle Number	Predicted Weight of Sand (g)	Actual Weight of Sand (g)	Predicted Pushing of Sand (cm)	Actual Pushing of Sand (cm)

Analysis

1. Why did the robot travel different distances for each *bottle of sand*? Hint: What remained the same? What was different?

Name: _____ Date: _____

2. In the space below, create a line graph of the actual pushing distance vs. the actual weight of the sand.

