

Name:

Date:

Class:

Day 1: Student Drag Inquiry Activity Sheet

Materials Needed:

- 1 3-lb weight (flat plate weight or bagged sand)
- 12-24" of string or thin rope
- five strips of different surfaces

Instructions:

1. Gather your team's weight and string.
2. Attach the string securely to the weight.
3. As a team, choose five unique surfaces to test by dragging the weight across them.
4. Collect strips of the five surfaces your group selected.
5. Discuss which surfaces you think will be the **easiest** and **hardest** to drag the weight across, and **why**.
6. In the "**Before**" section below, write a hypothesis about which surface will be the easiest to move the weight across. (Hint: Think about smoothness, texture, and material.)
7. Once all team members have recorded their hypotheses, take turns dragging the weight across each surface. Record what you notice in the "**During**" section.
8. When you're done testing, answer the reflection questions in the "**After**" section.

Inquiry Data Table

Before: Which surface do you think will be the easiest to move the weight across, and why?

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During: Complete the data table below.

Surface	Observations/Comments

After: Was your hypothesis correct? What did you learn about different surfaces from this inquiry? What surprised you?