

Name: _____

Date: _____ Period: _____

SNEAKER TRACTION DATA

PREDICTION: Based on your observations of the sneakers in the classroom, order them from the sneaker with the most traction to the least.

MOST TRACTION	1	2	3	4	5	6	7	8	9	10	11	12	LEAST TRACTION
<i>Write students' Initials</i>													<i>Write students' Initials</i>

Briefly describe the characteristics of the sneakers that made you chose the order above:

CALCULATING THE TRACTION VALUE: Using the provided board and meter stick, measure the height of the “Start Line” and “Finish Line” on the board when the sneaker begins to slide. Then, measure the distance between the “Start Line” and “Finish Line” from the ground, not on the board itself. Using these measurements, find the slope of the board at the time the sneaker slides. Taking the absolute value of the slope will give you the **Traction Value**.

Reminder:

$$\left(\text{Slope} = \frac{\text{rise}}{\text{run}} = \frac{\text{distance up or down}}{\text{distance left or right}} \right)$$

Student Initials: _____

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ACTUAL: Based on your **Traction Values** (the absolute value of the slope of the board), order the sneakers from the sneaker with the most traction to the sneaker with the least traction.

MOST TRACTION	1	2	3	4	5	6	7	8	9	10	11	12	LEAST TRACTION
<i>Write students' Initials</i>													<i>Write students' Initials</i>

Briefly describe what characteristics of the sneakers you believe had the biggest effect on their traction: