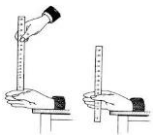
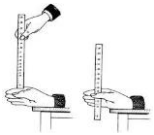


What is Your Reaction Time?



Benchmark(s): SC.4.N.1.4 Attempt reasonable answers to scientific questions and cite evidence in support

Testable Question: What do you think will happen to your reaction time after three attempts?

Control	Variable

Hypothesis (10 POINTS):

If_____, then
_____.

Materials (per group):

- partner to test reaction distance
- table
- ruler or meter Stick

Procedures:

1. Place your arm on the table so that your hand is hanging off the edge.
2. Have your partner stand at the edge of the table and place the ruler above your thumb and index finger. The ruler/meter stick should be vertical with the lowest numbers near the student's hand.
3. Your partner will release the ruler without warning.
4. You must catch the ruler/meter stick with only your thumb and index finger.
5. Record the centimeter mark that the ruler was caught on in the data table.
6. Repeat steps 1-5 for your other hand then switch positions with your partner.

Data (Quantitative):

Left Hand Attempts	Distance caught on Ruler/meter stick (centimeters)	Right Hand Attempts	Distance caught on Ruler/meter stick (centimeters)
1st Attempt		**1st Attempt**	
2nd Attempt		**2nd Attempt**	
3rd Attempt		**3rd Attempt**	

Analyzing Data:

Which hand had the fastest reaction time?

Which hand had the slowest reaction time?

Why would one hand have a faster or slower reaction time than the other hand?

Why is it important to accurately record data?

Summary:

After analyzing the data it was determined that the hypothesis was _____

(Supported *OR* Not Supported) by the data because _____

_____

_____

To conclude from this lab, I learned that _____

_____

_____

_____

A question I still have is _____

_____