Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Reaction Time Lab

1. Using a meter stick and the procedure demonstrated by your teacher, drop a meter stick 15 times and record your distance measurements.
2. Calculate the displacement that the meter stick fell. Subtract your measurements from the original 50 cm mark. Calculate the reaction time for each trial. Use g=981 cm/s2 because your measurements are in centimeters. Round at the third decimal (thousandths place).
3. Find the average reaction time.

|  |  |  |  |
| --- | --- | --- | --- |
| Trial # | Meter Stick Measurement | Displacementd =(d2-d1) | Reaction TimeT= $√$ (2d/g) |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |
| 4 |  |  |  |
| 5 |  |  |  |
| 6 |  |  |  |
| 7 |  |  |  |
| 8 |  |  |  |
| 9 |  |  |  |
| 10 |  |  |  |
| 11 |  |  |  |
| 12 |  |  |  |
| 13 |  |  |  |
| 14 |  |  |  |
| 15 |  |  |  |

Average Reaction Time =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_