

Egg Drop Lab Activity

Lab Team Names _____

- 1-egg
- 5-popsicles sticks
- 5-straws
- 5-rubber bands
- 1-sheet of paper
- 100-centimeters of string
- 100-centimeters of masking tape
- Plastic bag with the egg placed into the bag

Calculate speed, velocity, force, momentum

Mass of Egg Drop device that your lab team has assembled _____g

Height of drop _____m

Time it took to drop to the floor _____sec

Calculate speed _____Meters/seconds (m/ses) Speed=distance divided by the time

Calculate force _____N ($9.8/\text{meters}/\text{sec}/\text{sec} \times \text{mass of your device}$)

Did your egg survive the drop? Yes _____ No _____

1. How is gravity related to falling objects?
2. How would all objects accelerate if they fell in a vacuum? Why?
3. What does the Law of Universal Gravitation state?
4. Why does a raindrop fall to the ground at exactly the same rate as a rock?