

Name: \_\_\_\_\_ Date: \_\_\_\_\_  
Physics

Worksheet

# Egg Drop Project



**Directions:** Determine the velocity at impact, the impulse, force and the momentum of the egg drop project.

Christa needs to determine the momentum and impulse for her egg drop project. So, she collects the following data.

Trial	Vehicle Mass (g)	Egg Mass (g)	Distance (m)	Time (s)
1	122.9	57.0	1.00	.32
2	122.9	57.0	1.00	.37
3	122.9	57.0	1.00	.37
4	122.9	57.0	1.00	.34
5	122.9	57.0	1.00	.29
6	122.9	57.0	1.00	.33
7	122.9	57.0	1.00	.36
8	122.9	60.0	1.00	.35
9	122.9	60.0	1.00	.32
10	122.9	60.0	1.00	.31
AVE				

## Calculations

\_\_\_\_\_ velocity at impact

\_\_\_\_\_ the impulse

\_\_\_\_\_ the force

\_\_\_\_\_ the momentum

**"Anyone who stops learning is old, whether at twenty or eighty.  
Anyone who keeps learning stays young. The greatest thing in life is  
to keep your mind young." - Henry Ford**