

Name:

Date:

Class:

Introduction/ Motivation Worksheet **Answer Key**

Instruction: Watch the video at the following link and then answer the questions below.

<https://www.youtube.com/watch?v=EzNfvwPCFs0&t=6s>

1. Rank the amount of momentum from least to greatest.
 - a. A bullet travelling at a very high speed.
 - b. A 1 kg melon rolling at a very low speed.
 - c. A truck at rest.

Ranking: ___ **Truck, melon, bullet**

2. Explain your answer:

The truck has zero momentum because its velocity or speed is zero. The melon is next, even if it's more massive than the bullet, because the bullet has a very high speed that would compensate for its small mass.