

Name:

Date:

**Main Ideas, Key Points, Questions:**

*After watching the video segment, write down key points, main ideas, and big questions.*

**Objective(s):**

- *Define momentum and impulse.*
- *Understand the relationship between the impulse an object experiences, the force an object experiences, and time.*

**Notes:**

*During the video segment, use words, phrases, or drawings to take notes.*

**Summary:**

*After watching the video segment, write at least three sentences explaining what you learned. You may ask yourself: "If I was going to explain this to someone else, what would I say?"*

**Answer the following.**

1. Define momentum in your own words.

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2. What is the equation for momentum?

3. Define impulse in your own words.

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4. What is needed to change an object's momentum?

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5. If two objects, like the eggs in the video, experience the same change in momentum but over time periods of different lengths, how do the forces experienced by each object compare?

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**Answer the following.**

6. Why does it hurt more to land on the wooden floor of a gym than on a padded mat?

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7. If an object experiences an impulse and stops, what is its final momentum?

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8. Two cars, one twice as heavy as the other, move down a hill at the same speed. How does the momentum of the heavier car compare to that of the lighter car?

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