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.

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?”
1. Define momentum in your own words.

2. What is the equation for momentum?

3. Define impulse in your own words.

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

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?
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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