Booklet Number # 6

Website | https://barisciencelab.tech/L6Impulse.html

Do now

1. What is momentum

2. What is impulse

3. What is force

4. What are the differences between momentum and impulse

5. What is the connection between impulse and Newton's second law

6. A 5 kg object traveling 3 m/s east is subjected to a force that increases its velocity to 7 m/s. If the force acts for 0.2 second, what is its magnitude?

7. A 5 kg object traveling 3 m/s east is subjected to a force that increases its velocity to 7 m/s. If the force acts for 0.001 second, what is its magnitude?

8. Which above problem matches with the Do Now video scenario 1?

Big Idea

9. There are two scenarios in a big idea video. Describe both scenarios.

10. In which scenarios the impulse will be greater in magnitude? Make a guess

11. Now solve both scenarios.

12. Now find the magnitude of the force for both scenarios.

13. What do you learn from big ideas?

Exit Slip

14. Find impulse of an egg when it rebound upon collision

Homework

15. Find impulse of an egg when it rebound upon collision