

Study Guide for Exam 2 – Forces and Momentum

Required Materials:

- Scantron (#882)
- #2 pencil
- Scientific calculator

Optional Materials: Any handwritten note sheets.

Vocabulary

mass,
weight

momentum
impulse

acceleration

Calculations

1. Newton's second law
2. Impulse
3. Momentum
4. Conservation of Momentum
5. Impulse/Momentum Relationship

Important Concepts

6. Relationships between force, mass, and acceleration
7. Difference between mass and weight
8. Difference between impulse and force
9. Momentum, force, and impulse are vector quantities
10. Newton's third law and action/reaction pairs
11. Units for weight, mass, impulse, and momentum
12. Be able to use the law of conservation of momentum to solve problems

Be prepared to ask questions on the following experiments

13. Experiment 7: Newton's Second Law
14. Experiment 8: Conservation of Momentum