

## Physical Science EOCT Review

### Section 1: Motion, Forces, and Energy

**Motion and Force:** SPS 8. Students will determine relationships among force, mass, and motion.

**Energy:** SPS 7. Students will relate transformations and flow of energy within a system.

**Speed and Velocity:** SPS 8a. Calculate velocity and acceleration.

An object is in motion when it is continuously changing its position relative to a reference point. Speed is how fast an object is going with respect to an object. Velocity is a measure of the speed in a given direction. You can say the top speed of an airplane is 300 kilometers per hour (kph). But its velocity is 300 kph in a northeast direction.

Calculating speed or velocity

Speed = distance / time and velocity = distance / time in a particular directions

1. Bob travels 300 km in 10 hrs towards the store.
2. Ashley swims 50 m in 10 seconds.

**Acceleration:** SPS 8a. Calculate velocity and acceleration.

Acceleration is the increase of velocity over a period of time. Deceleration is the decrease of velocity.

$$\text{Acceleration} = \frac{\text{final velocity} - \text{initial velocity}}{\text{time}}$$

$$a = \frac{v - w}{t}$$

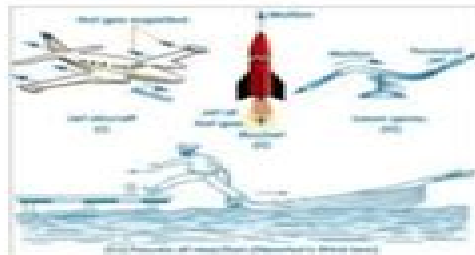
Changing direction can also cause acceleration (or deceleration) because the velocity in that direction has changed.

Calculate the acceleration

1. A train traveling 20 meter per second takes 10 seconds to stop.
2. A boy gains a speed of 5 m/s after running for 20 seconds.

**Newton's Laws of Motion:** SPS 8b. Apply Newton's 3 Laws to everyday situations by explaining the following: inertia, relationship between force, mass, and acceleration, and equal and opposite forces.

- Newton's 1<sup>st</sup> Law: The first law says that an object at rest tends to stay at rest, and an object in motion tends to stay in motion, with the same direction and speed unless acted on by unbalanced force. (Also called the Law of Inertia)
- Newton's 2<sup>nd</sup> Law: defines the relationship between acceleration, force, and mass. As the mass goes up, the same force will cause an object to have less acceleration. This law is often stated mathematically as  $F = \text{mass} \times \text{acceleration}$ .
- Newton's 3<sup>rd</sup> Law: The third law says that for every action (force) there is an equal and opposite reaction (force). Forces are found in pairs.



**Forces and Gravitation:** SPS 8c. Relate falling objects to gravitational force.

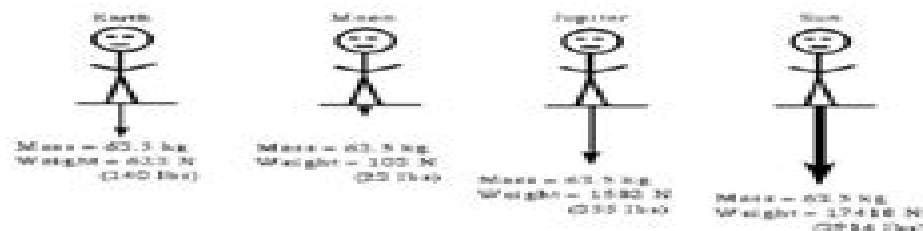
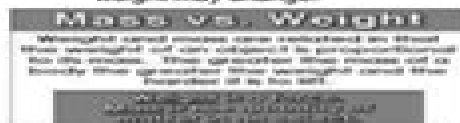
- Gravity is the force that pulls objects toward the Earth. It is affected by mass and distance. The equation for the force of gravity is  $F = mg$ .
- Acceleration due to gravity  
The acceleration due to the force of gravity on Earth is  $g: 9.8 \text{ m/s}^2$
- Weight  
The weight of an object is the measurement of the force of gravity on that object. You

weigh something on

a scale, according to the force that the Earth pulls it down:  $w = mg$ ; where  $w$  is the weight in Newtons (N)

**Mass and Weight:** SPS 8d. Explain the difference between mass and weight.

Mass is a measure of how much matter an object has. Weight is a measure of how strongly gravity pulls on that matter. Mass is constant, but the weight may change.



# Holt Physics Study Guide Diagram Skills

**Didier Musso**



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## **Table of Contents Holt Physics Study Guide Diagram Skills**

1. Understanding the eBook Holt Physics Study Guide Diagram Skills
  - The Rise of Digital Reading Holt Physics Study Guide Diagram Skills
  - Advantages of eBooks Over Traditional Books
2. Identifying Holt Physics Study Guide Diagram Skills
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Holt Physics Study Guide Diagram Skills
  - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Physics Study Guide Diagram Skills
  - Personalized Recommendations
  - Holt Physics Study Guide Diagram Skills User Reviews and Ratings
  - Holt Physics Study Guide Diagram Skills and Bestseller Lists
5. Accessing Holt Physics Study Guide Diagram Skills Free and Paid eBooks
  - Holt Physics Study Guide Diagram Skills Public Domain eBooks
  - Holt Physics Study Guide Diagram Skills eBook Subscription Services
  - Holt Physics Study Guide Diagram Skills Budget-Friendly Options

6. Navigating Holt Physics Study Guide Diagram Skills eBook Formats
  - ePub, PDF, MOBI, and More
  - Holt Physics Study Guide Diagram Skills Compatibility with Devices
  - Holt Physics Study Guide Diagram Skills Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Holt Physics Study Guide Diagram Skills
  - Highlighting and Note-Taking Holt Physics Study Guide Diagram Skills
  - Interactive Elements Holt Physics Study Guide Diagram Skills
8. Staying Engaged with Holt Physics Study Guide Diagram Skills
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Holt Physics Study Guide Diagram Skills
9. Balancing eBooks and Physical Books Holt Physics Study Guide Diagram Skills
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Holt Physics Study Guide Diagram Skills
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Holt Physics Study Guide Diagram Skills
  - Setting Reading Goals Holt Physics Study Guide Diagram Skills
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Holt Physics Study Guide Diagram Skills
  - Fact-Checking eBook Content of Holt Physics Study Guide Diagram Skills
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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