

FORCE & MOTION STUDY GUIDE

Essentially Words to Know:

- **Force** push or pull on an object
- **Net Force** the overall force exerted on an object
- **Unbalanced Force** unequal forces on object. It motion **WILL** change because the net force is **not** zero
- **Balanced Force** equal forces on object's motion **WILL NOT** change because the net force is **zero**
- **Friction** the resistance that one surface or object encounters when moving over another
- **Gravity** a non contact force that pulls all objects that have mass toward one another
- **Inertia** an object's tendency to resist a change in motion
- **Mass** the amount of matter something has (measured in grams)
- **Position** a change in position of an object with respect to time
- **Speed** how fast an object moves
- **Weight** force of gravity on the object
- **Velocity** the rate of motion in a specific direction (speed + a direction)

$$\text{SPEED} = \frac{\text{DISTANCE}}{\text{TIME}}$$

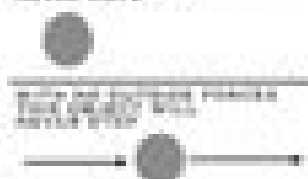


Calculate the **SPEED** of a train that traveled 100 miles in 2 hours.

NEWTON'S LAWS OF MOTION

1. **First Law (aka Law of Inertia)** 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

WITH AN **EXTERNAL FORCE**
IT **WILL** **NOT** **MOVE**



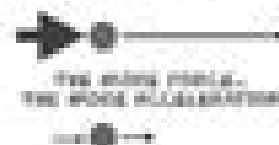
EXAMPLE:

the planets orbiting the Sun (the Sun's gravitational pull holds the planets in orbit)



2. **Second Law:** Force = Mass x Acceleration

$$F = ma$$



EXAMPLE:

it takes more force to push an adult on a swing than it does to push a child



FORCE & MOTION QUIZ

Directions: Match the word with the definition.

- | | |
|----------------------------|---|
| 1. W/OUT | A. an object's tendency to resist a change in motion |
| 2. UNBALANCED FORCE | B. a non contact force that pulls all objects that have mass toward one another |
| 3. BALANCED FORCE | C. the resistance that an object encounters when moving over another |
| 4. INERTIA | D. an object's motion will not change because the net force is zero |
| 5. GRAVITY | E. an object's motion will change because the net force is NOT zero |
| 6. MASS | F. push or pull on an object |

Directions: Choose the best answer.

1. Which of Newton's 3 laws explains a rocket blasting off into space?
 - a. Newton's 1st Law
 - b. Newton's 2nd Law
 - c. Newton's 3rd Law
 - d. Newton's 4th Law

FORCE & MOTION QUIZ ANSWER KEY

Directions: Match the word with the definition.

- | | | |
|----------------------------|----------|---|
| 1. W/OUT | F | A. an object's tendency to resist a change in motion |
| 2. UNBALANCED FORCE | E | B. a non contact force that pulls all objects that have mass toward one another |
| 3. BALANCED FORCE | D | C. the resistance that an object encounters when moving over another |
| 4. INERTIA | A | D. an object's motion will not change because the net force is zero |
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Ocean Motion Study Guide Answers Tennessee Science

SJ Ball



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Table of Contents Ocean Motion Study Guide Answers Tennessee Science

1. Understanding the eBook Ocean Motion Study Guide Answers Tennessee Science
 - The Rise of Digital Reading Ocean Motion Study Guide Answers Tennessee Science
 - Advantages of eBooks Over Traditional Books
2. Identifying Ocean Motion Study Guide Answers Tennessee Science
 - 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 Ocean Motion Study Guide Answers Tennessee Science
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ocean Motion Study Guide Answers Tennessee Science
 - Personalized Recommendations
 - Ocean Motion Study Guide Answers Tennessee Science User Reviews and Ratings
 - Ocean Motion Study Guide Answers Tennessee Science and Bestseller Lists

5. Accessing Ocean Motion Study Guide Answers Tennessee Science Free and Paid eBooks
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 - Ocean Motion Study Guide Answers Tennessee Science eBook Subscription Services
 - Ocean Motion Study Guide Answers Tennessee Science Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - Ocean Motion Study Guide Answers Tennessee Science Compatibility with Devices
 - Ocean Motion Study Guide Answers Tennessee Science Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ocean Motion Study Guide Answers Tennessee Science
 - Highlighting and Note-Taking Ocean Motion Study Guide Answers Tennessee Science
 - Interactive Elements Ocean Motion Study Guide Answers Tennessee Science
8. Staying Engaged with Ocean Motion Study Guide Answers Tennessee Science
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ocean Motion Study Guide Answers Tennessee Science
9. Balancing eBooks and Physical Books Ocean Motion Study Guide Answers Tennessee Science
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ocean Motion Study Guide Answers Tennessee Science
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ocean Motion Study Guide Answers Tennessee Science
 - Setting Reading Goals Ocean Motion Study Guide Answers Tennessee Science
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ocean Motion Study Guide Answers Tennessee Science
 - Fact-Checking eBook Content of Ocean Motion Study Guide Answers Tennessee Science
 - 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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