

## FORCE & MOTION STUDY GUIDE

Essentially Words to Know:

- **Force** push or a pull on an object
- **Net Force** the overall force exerted on an object
- **Unbalanced forces** unequal forces on object. **Will** change because the net force is **greater**
- **Balanced Forces** 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)

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

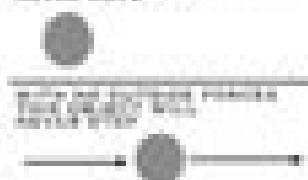


Calculate the **SPEED** of a train that traveled 100 miles in 2 hours.

## 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 **ACCELERATE**



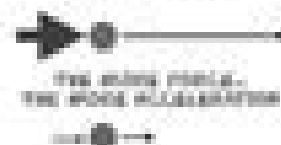
**EXAMPLE:**

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

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# Ocean Motion Study Guide Answers Tennessee Science

**BM King**



## **Ocean Motion Study Guide Answers Tennessee Science:**

## Decoding **Ocean Motion Study Guide Answers Tennessee Science**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Ocean Motion Study Guide Answers Tennessee Science**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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