

FORCE & MOTION STUDY GUIDE

vocabulary 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)

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

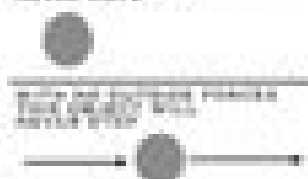


Calculate the **SPEED** of a train that traveled 100 miles in 2 hours.

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**



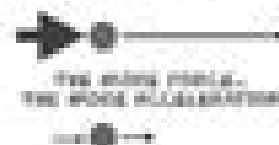
EXAMPLE:

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. 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 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. 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 |
| 5. GRAVITY | B | E. an object's motion will change because the net force is NOT zero |
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Ocean Motion Study Guide Answers Tennessee Science

Brendan G. Carr



Ocean Motion Study Guide Answers Tennessee Science:

Unveiling the Magic of Words: A Report on "**Ocean Motion Study Guide Answers Tennessee Science**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Ocean Motion Study Guide Answers Tennessee Science**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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