

## 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)

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

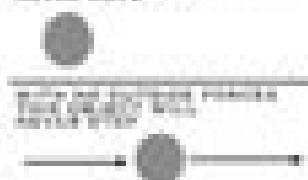


Calculate the **SPEED** of a train that traveled 100 miles in 2 hours.

## 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**



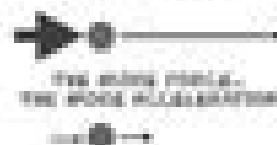
**EXAMPLE:**

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>MASS</b>             | F. push or a pull on an object  |

Directions: Choose the best answer.

1. Which of Newton's 3 laws explains a rocket pushing off the ground?
  - 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>MASS</b>             | <b>C</b> | F. push or a pull on an object  |

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# Ocean Motion Study Guide Answers Tennessee Science

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