

**Chapter 11 & 12 Study Guide: Motion & Forces Answer Key**

**Chapter 11: Motion**

1. Define (include the formula and circle diagram for calculating speed, velocity, and acceleration):
  - a. Distance: The length between two objects or the length of the path traveled.
  - b. Speed: distance traveled by the time it took to travel. **speed = distance/time**
  - c. Velocity: distance traveled by the time it took to travel and the direction that you traveled in. **velocity = distance/time**
  - d. Acceleration: change in velocity or velocity over time. **acceleration =  $\frac{velocity_{final} - velocity_{initial}}{time}$**
2. What is the speed of an object at rest? **0 m/s**
3. The difference between speed and velocity is that velocity includes **direction**.
4. The SI unit for distance is **meter (m)**.
5. The SI unit for speed or velocity is **meter per second (m/s)**.
6. The SI unit for acceleration is **meter per second squared (m/s<sup>2</sup>)**.
7. On a **distance-time** graph, what does the slope tell you? **Speed or Velocity**
8. On a **speed-time** graph, what does the slope tell you? **Acceleration**

**Chapter 12: Forces**

9. Describe (what does it say and what is it commonly called)
  - a. Newton's First law of Motion: **Also known as "Law of Inertia". Object in motion stays in motion and an object at rest stays at rest UNLESS acted upon by a NET FORCE.**
  - b. Newton's Second law of Motion:  **$F = m \times a$ . Force equals the product of an object's mass and acceleration. (Acceleration is equal to the force and inversely proportional to mass)**
  - c. Newton's Third law of Motion: **Also known as "Action/Reaction Law". For every action there is an equal and opposite reaction.**
10. Give **an example for each** of Newton's laws
  - a. Newton's First law of Motion: **boulder won't move unless something pushes on it, and the moon won't stop rotating unless a force acts on it.**
  - b. Newton's Second law of Motion **it takes more force to accelerate a school bus than a toy car.**
  - c. Newton's Third law of Motion: **my foot pushed on the ball (action force), the ball pushes back (reaction force) and fly's forward (resulting net force). OR when you sit in the desk you push down on the desk and the desk pushes on you but they are balanced so there is NO CHANGE in motion.**
11. Define and give an example of each of the following terms.

| Definition                                                                                            | Example                                                                           |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| a. Friction: <b>force that opposes motion.</b>                                                        | a. Friction: <b>heat when rubbing hands together.</b>                             |
| b. Static Friction: <b>friction that prevents object from moving.</b>                                 | b. Static Friction: <b>pushing against a dresser that won't move.</b>             |
| c. Sliding Friction: <b>friction that occurs between objects sliding past each other.</b>             | c. Sliding Friction: <b>going down a slide; dresser sliding across the floor.</b> |
| d. Rolling Friction: <b>friction that occurs between object rolling against another object.</b>       | d. Rolling Friction: <b>roller skates on pavement; car driving on the road</b>    |
| e. Fluid Friction: <b>friction that occurs in a fluid (Examples of Fluid: water, quicksand, air.)</b> | e. Fluid Friction: <b>falling leaves; fish swimming in water</b>                  |

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