

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

**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.  $\text{Speed} = \text{distance} / \text{time}$
  - c. Velocity: distance traveled by the time it took to travel and the direction that you travelled in.  $\text{velocity} = \text{distance} / \text{time}$
  - d. Acceleration: change in velocity or velocity over time.
2. What is the speed of an object at rest? Zero 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 ( $\text{m/s}^2$ )
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: law of inertia. Object in motion stays in motion or an object at rest stays at rest UNLESS acted on by a FORCE.
  - b. Newton's Second law of Motion:  $F = ma$ . Force equals the product of an object's mass and acceleration. (or Acceleration is equal to the force and inversely proportional to mass)
  - c. Newton's Third law of Motion: 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: bolder 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 you sitting in the desk is pushing down on the desk and the desk is pushing up on you but they are balanced so no CHANGE in motion.
11. Define and give an example of each of the following terms.

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

# Guide Answer

**M Woodhall**



## Guide Answer:

Student Study Guide/Solutions Manual for Essentials of General, Organic, and Biochemistry Denise Guinn, Rebecca Brewer, Rachel C. Lum, 2009-09-15 The Student Study Guide and Solutions Manual provides students with a combined manual designed to help them avoid common mistakes and understand key concepts After a brief review of each section s critical ideas students are taken through stepped out worked examples try it yourself examples and chapter quizzes all structured to reinforce chapter objectives and build problem solving techniques The solutions manual includes detailed solutions to all odd numbered exercises in the text *Chemical Principles Study Guide/Solutions Manual* John Krenos, Joseph Potenza, Carl Hoeger, 2007-01-18 Written for general chemistry courses Chemical Principles helps students develop chemical insight by showing the connection between chemical principles and their applications

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