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## Chapter 12 Forces And Motion Section 12 4 Universal Forces

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FORCE AND LAWS OF MOTION - FULL CHAPTER  
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Syllabus ~~Chapter 12 Forces And Motion~~

Chapter 12 Forces and Motion Summary 12.1

Forces A force can cause a resting object to move, or it can accelerate a moving object by changing the object's speed or direction.

- A force is a push or a pull that acts on an object. One newton is the force that causes a 1-kilogram mass to accelerate at a rate of 1 meter per second each second.

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mackenzie\_allen38. Key Concepts: Terms in this set (19) A group of students is playing tug of war the students on both sides of the rope are pulling with equal force so that the rope isn't moving. This is an example of

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Section 12.4 - Universal Forces. The four universal forces are the electromagnetic, strong nuclear, weak nuclear, and gravitational forces. All the universal forces act over a distance between particles of matter, which means that the particles do

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not need to be in contact with one another.

~~Chapter 12: Forces and Motion~~

Chapter 12: Forces. Describe (what does it say and what is it commonly called) 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. Newton's Second law of Motion:  $F=ma$ . Force equals the product of an object's mass and acceleration.

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Chapter 12 Forces and Motion. STUDY. PLAY. a



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force. a push or pull that acts on an object.  
net force. the overall force acting on an  
object after all the forces are combined.  
static friction. exists between a stationary  
object and the surface on which it's resting.  
sliding friction.

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Quizlet~~

Chapter 12 Forces and Motion Section 12.2  
Newton's First and Second Laws of Motion. ©  
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42Physical ScienceMath Skills and Problem

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Solving Workbook. Name

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Class \_\_\_\_\_ Date \_\_\_\_\_.

Chapter 12 Forces and Motion.

~~Chapter 12 Forces and Motion Section 12.2~~

~~Newton's First ...~~

Gravity causes objects to accelerate downward, whereas air resistance acts in the direction opposite to the motion and reduces acceleration. terminal velocity. the constant velocity of a falling object when the force of air resistance equals the force of gravity; fastest velocity an object can

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reach. projectile motion.

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Centripetal Force. a force that continually changes the direction of an object to make it move in a circle. Electromagnetic Force. A

force associated with charge particles.

Inertia. The measure of mass in an object.

Friction. A force that opposes the motion of objects that touch as they move past each other. Gravity.

~~Chapter 12 Forces and Motion Wordwise~~

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Chapter 12: Forces. Describe (what does it say and what is it commonly called) 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. Newton's Second law of Motion:  $F = m \times a$ .

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

Chapter 12 Forces and Motion Section 12.2

Newton's First and Second Laws of Motion (pages 363–369) This section discusses how force and mass affect acceleration. The

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acceleration due to gravity is defined, and mass and weight are compared. Reading Strategy (page 363) Building Vocabulary As you read this section, write a definition in

~~Bordentown Regional School District~~

Chapter 12- Forces and Motion. Force. Newton. Net force. Friction. A push or pull that acts on an object. The SI unit for force, equal to the force that causes a 1-kilo... The overall force acting on an object after all the forces are... A force that opposes the motion of objects that touch as they...

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~~Chapter 12: Forces in Motion — Unatego~~

CHAPTER 12 FORCES AND MOTION 12.1 FORCES 2. 12.1

FORCE There are 4 distinct forces in our universe: Gravitational, electromagnetic, strong nuclear and weak nuclear forces. Ex: everyday force - wind Force - is a push or pull that acts on an object. A force can cause a resting object to move, or it can accelerate a moving object by changing the object's speed or direction.

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