

Unit 1 Test Review
Chapters 1, 2, 3, and 4

Answer the following questions to help you study for your Unit 1 Test.

Define:

Noncontact Force:

Contact Force:

Kinetic Energy:

Potential Energy:

Law of Conservation of Energy:

What makes digital signals better than analog signals?

Give an Example of Each Energy Type:

Kinetic	Potential	Chemical	Radiant	Seismic	Sound	Thermal

Fill in the graphic organizer below:

	Newton's 1st Law		Definition	Example 1 and Picture			
	Newton's 2nd Law				Example 2 and Picture		
	Newton's 3rd Law					Example 3 and Picture	

Define and Provide an Example of each Simple Machine Listed Below:

Simple Machine	Definition	Example
Lever		
Pulley		
Wheel and Axle		
Screw		
Wedge		
Inclined Plane		

Speed of Sound

Medium	Speed (m/s)
Gases:	
Air (0°C)	331
Air (20°C)	340
Liquids:	
Fresh water	1490
Salt water	1531
Solids:	
Lead	1210
Plastic	1800
Silver	2680
Gold	3240
Brick	3650
Wood	4000
Glass	4540
Iron	5000
Steel	5200

Using the chart at the left fill in the blanks:

The speed of sound is faster in _____ than in iron.

Sound travels the slowest in _____ (solids, liquids, or gases).

Sound travels fastest in _____ (solids, liquids, or gases).

Organize the types of radiation below from longest wavelength to shortest wavelength:

Microwaves, Gamma Rays, Visible Light, Infrared Radiation, Ultraviolet, X-Rays, AM Radio Waves, FM Radio Waves

Longest _____ Shortest _____

A(n) (sound or electromagnetic) wave can travel through a vacuum and matter.

Sound Waves are (longitudinal or transverse) waves.

Define each and draw a picture:

	Definition	Picture
Convex Mirror		
Convex Lens		
Concave Lens		
Concave Mirror		
Plane Mirror		