Waves Unit Study Guide

1.	Mechanical waves are created when a source of energy causes a medium to
2.	The highest points of a transverse wave are called
	Electromagnetic waves can transfer energy without a
4.	Give two examples types of waves that require a medium.
	Give two examples of types of waves that do not require a medium
	Part of a longitudinal wave where the particle are spread apart is called a
	What term describes the maximum distance that the particles of a wave's medium vibrate from their rest
	position?
8.	What term describes the number of waves produced in a given amount of time?
9.	What term describes the distance from any point on a wave to an identical point on the next wave?
10.	What term describes the speed at which a wave travels through a medium?
11.	What unit is used to describe the frequency of a wave?
12.	What do you call a reflected sound wave?
13.	The bending of waves due to a change in speed is called
14.	The bending of waves around the edge of a barrier is known as
15.	The interaction between two waves that meet is called
16.	What occurs when vibrations traveling through an object match the object's natural frequency?
17.	The electromagnetic spectrum is divided into regions by what?
18.	Light that has passed through a polarizing filter is called
19.	Why do you see lightning from a distant storm before you hear thunder?
20.	The range of electromagnetic waves placed in a certain order is called the
21.	What type of wave has the lowest frequency?
22.	What type of wave has the greatest energy?
23.	Visible light has a higher frequency than
24.	The images made by an infrared camera are called
25.	Cell phone signals are transmitted by

26. What EM waves are used in radar?	
27. What EM waves are seen in a rainbow?	
28. What EM waves are used to broadcast TV signals?	
29. What EM waves make an object feel warmer?	
30. What EM waves are used to treat some form of cancer?	
31. What EM waves cause sunburns?	
32. What EM waves are used as security devices in airports?	
33. What EM waves does your skin need to produce vitamin D?	
34. Global Positioning System signals can tell you	
35. For each cell, or geographical area, a cell phone system requires a	
36. Identify the name of the wave shown below:	
37. What is the medium through which the wave is moving?	
Label the parts of the wave. Word Bank Rest position, Crest, Trough Direction of wave	
Identify the name of the wave shown below:	
38. Label the parts of the wave. Word Bank Rarefaction, Compression	
Push Rest position— Pull	

Direction of Wave

^{*}There will also be an experiment question on the test so you should be able to identify the variables and the control.