Waves Web Quest

Directions: Go to the following websites and answer the following questions.

A) What are sound waves?

1. Go to: Sound Waves - Succeed in Physical Science: School for Champions

B) What do sound waves move or travel through? C) Sound waves are created by _____? D) What are the characteristics of sound? E) Describe the Frequency of sound? 2. Go to: http://en.wikipedia.org/wiki/Ocean_surface_wave A) Where do surface waves occur? B) Surface waves are also referred to as _____ waves. C) What causes a surface wave? D) When does a surface wave reach land? E) What is the size ranges of surface waves? 3. Go to: http://www.proprofs.com/quiz-school/quizshow.php?title=mechanicalwaves&q=1 A) Take the quiz, and see how smart you are. Check out the animations! B) Mechanical wave's require_____ C) What is an example of a mechanical wave? D) A mechanical wave transmits energy through a vacuum. True or False? E) What is the #1 difference between mechanical and electromagnetic waves?

4. Go to: http://en.wikipedia.org/wiki/Transverse wave A) What is the definition of a transverse wave?
B) What are some properties of transverse waves?
C) What are some examples of transverse waves?
D) Draw a picture of a transverse wave.
E) What direction does a transverse move?
5. Go to: http://www.physicsclassroom.com/mmedia/waves/lw.cfm
A) Longitudinal waves are a type of wave motion forwaves.
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B) What is one difference you see between the picture of a longitudinal and transverse wave?
C) What is an example of a longitudinal wave?
D) The longitudinal wave moves in adirection.
E) What's one thing you notice from the picture of the wave?
6. Go to http://sunshine.chpc.utah.edu/ A) Seismic waves are divided into what two types?
B) What are seismic waves used for?
C) What is a seismic wave?
D) How or where do seismic waves travel?

	o to: http://www.weather.gov/om/brochures/tsunami.htm nat is a tsunami wave?
B) WI	nat can cause a tsunami wave?
C) WI	nat is the range of length and width of tsunami wave?
D) Tr	ue or false. A tsunami wave can be seen from the air
E) W	hat is the range of speed tsunamis consist of?
ml	e: www.windows.ucar.edu/tour/link=/physical science/magnetism/em radio waves.ht hat is a radio wave?
·	adio wave wavelength is shorter than visible light. True or False. By do we use radio waves?
·	nat is an example of a radio wave?
E) Wh	at are various frequencies of radio waves used for?
	to: http://science.hq.nasa.gov/kids/imagers/ems/visible.html sible light waves are a type of what other wave?
B) WI	nat does color have to do with light waves?
C) Ho	w do we see using visible light waves?
D) WI	nat do visible light waves show us?
E) Fre	om the colors, do they all have the same wavelength?

10. Go to: http://science.hq.nasa.gov/kids/imagers/ems/waves2.html
A) What can make electromagnetic waves?
B) When are electromagnetic waves formed?
C) Who studied how electromagnetic waves are formed?
D) From the animation describe or draw how electromagnetic waves look?
E) From an electromagnetic wave the electric and magnetic field is what direction toward each other?
11. Go to: http://www.co.pasquotank.nc.us/departments/911/webpage/heatwaves.htm
A) What is a heat wave?
B) When and how do heat waves form?
C) Why can heat waves be dangerous?
D) What are some tips to do or go during a time of heat waves?
E) Have heat waves ever affected the world in a way? Explain.
12. Go to: http://science.hq.nasa.gov/kids/imagers/ems/infrared.html A) What are Infrared waves?
B) Infrared light waves are the closest or farthest in wavelength to visible light?
C) How do we experience infrared radiation?
D) Infrared waves are a type of electromagnetic wave or a transverse waves?
E) Explain what infrared exactly show us.