

Waves Online

Name: _____ Date: _____ Hour: _____

http://mathxscience.com/wave_travel.html. Use this link to answer the following questions.

1. What is a wave?
 - a. Scientific answer

 - b. Your answer in your own words

2. Fill in each box with a sentence.

	Transverse	Longitudinal (Compressional waves)
Are the same because...		
Are different because...		

<http://zonalandeducation.com/mstm/physics/waves/partsOfAWave/waveParts.htm>. Use this link to answer the following questions.

3. Define each of the following terms
 - a. Crest
 - b. Trough
 - c. Amplitude
 - d. Wavelength
 - e. Frequency

4. What does Hz represent?

http://www.classzone.com/books/ml_science_share/vis_sim/wslm05_pg18_graph/wslm05_pg18_graph.html. Use this link to answer the following question.

5. Write three sentences about what you see happening when you change the variables.

<https://science.hq.nasa.gov/kids/imagers/ems/waves3.html>. Use this link to answer the questions.

6. List the seven types of Electromagnetic waves.

<http://micro.magnet.fsu.edu/primer/java/speedoflight/index.html>

7. What is the speed of light through different mediums?

- a. Air
- b. Water
- c. Crown glass (used in lenses)
- d. Diamond

8. Which material does light move through the fastest? Why do you think light can move through that the most quickly? Use the word molecules in your answer.

9. List red, blue, and green in order of their wavelength from shortest to longest.

10. What effect does amplitude have on color?

11. Write a short paragraph about this activity. Include the following questions into your paragraph:
What two things have you learned? And what two things do you still have questions about?