

Waves and the Electromagnetic Spectrum

Name _____

Class _____ Date _____

1. (a) In describing waves _____ refers to the number of waves that pass a point per unit of time. What is its symbol? _____

(b) The distance between similar points in a set of waves (from crest to crest or trough to trough) is _____

What is its symbol? _____

2. What is meant by the *amplitude* of a wave? _____

3. What are two characteristics of light waves? _____

4. What is a *continuous spectrum*? _____

5. Name five regions of the electromagnetic spectrum and arrange them in order of their increasing energy.

Critical Thinking

6. What is the relationship between wavelength and frequency for an electromagnetic wave? _____

7. Using the method of concept mapping described at the front of your textbook, draw a concept map for the term *light*. Use the back of this worksheet for your concept map.