

Wave Introduction

1. In your notebook. Use drawings, captions, lists, etc. to answer/describe the following topics. Give examples when appropriate.
 - a. The Nature of Waves (Chapter 10)
 - i. What's in a wave?
 - ii. What is the relationship between waves and energy?
 - iii. What do all mechanical waves travel through?
 - iv. Types of mechanical waves.
 1. Transverse waves
 2. Compression waves
 3. Sound waves
 4. Water waves
 5. Seismic waves
 - b. Wave Properties
 - i. Identify and describe the parts of a wave.
 - ii. Describe/define wavelength
 - iii. Describe/define frequency and period
 - iv. What is the relationship between wavelength and frequency?
 - v. What are factors which determine wave speed?
 - vi. Give a thorough explanation of the relationship between amplitude and energy. Compare/contrast a high-amplitude wave with a low-amplitude wave.