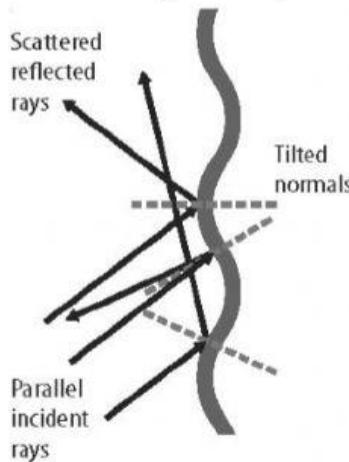


Light and Sound Study Guide

Matching

Directions: Match the description with the correct word (a-k), by writing the correct letter in the space provided. Some of the words may not be used.

| | |
|--|-----------------------|
| _____ 1. used to locate objects under water by reflection of sound waves. (used by humans) | a. intensity |
| _____ 2. finding objects by emitting sound waves and interpreting the reflected sound (used naturally by animals) | b. regular |
| _____ 3. the way the brain perceives the intensity of a sound. | c. frequency |
| _____ 4. the change in pitch of a sound caused by motion of either the sound source or receiver. | d. pitch |
| _____ 5. amount of sound energy that flows through a given area in a given amount of time | e. Ultrasound |
| _____ 6. the study of sound. | f. Doppler effect |
| _____ 7. caused by the reflection of a sound wave | g. echo |
| _____ 8. measured in hertz (Hz) | h. acoustics |
| _____ 9. When light reflects off of a rough surface, no clear image forms, this is called a _____ reflection. | i. Echolocation |
| | j. diffuse |
| | k. longitudinal waves |
| | l. loudness |
| | m. Sonar |



Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

_____ 10. Which electromagnetic waves have the longest wavelengths and lowest frequencies?

| | |
|-------------------|---------------------|
| a. infrared waves | c. gamma rays |
| b. radio waves | d. ultraviolet rays |