

Name _____

Waves & Electromagnetic Spectrum Worksheet

Directions: Use the word bank to answer the following questions. **Each word will be used only once.**

Crest	Frequency	Mechanical	Infrared
Trough	Transverse	Radio	Gamma
Wavelength	Longitudinal	Ultraviolet	X-Rays
Visible Light	Amplitude	Electromagnetic	

1. _____ waves are used to penetrate solids and are used in doctor's offices and for airport security.
2. _____ is the distance between one point of a wave to the same point on the next wave.
3. _____ is the number of waves per unit of time.
4. _____ waves occur when the motion of the medium is parallel to the direction of the wave.
5. _____ waves have a color spectrum known as ROYGBIV.
6. _____ waves disturb matter.
7. The _____ is the top of a wave.
8. The _____ is the bottom of a wave.
9. _____ is the maximum distance that matter is displaced from the resting position.
10. _____ waves are produced by stars and galaxies.
11. _____ waves occur when the motion of the medium is at right angles (perpendicular) to the direction of the wave.
12. _____ waves are often used in heat lamps.
13. _____ waves are utilized by insects to locate nectar.
14. _____ waves are transverse waves that disturb electromagnetic fields.
15. _____ waves have the shortest wavelength and the highest frequency.