



# Guided Practice

## Part I: Vocabulary Matching

Match the term on the left to the correct definition on the right.

- |                       |                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------|
| 1. _____ sonar        | A. a device that creates a coherent and uniform beam of electromagnetic radiation              |
| 2. _____ laser        | B. an energy wave that moves through the Earth                                                 |
| 3. _____ ultrasound   | C. a technology that transmits and receives sound waves through water in order to find objects |
| 4. _____ seismic wave | D. high-frequency sound waves commonly used in medical applications                            |

## Part II: Identification

Fill in the blanks with the clues provided.

### Word Bank

S waves

optics

compact

radio

- Fiber \_\_\_\_\_ transmit information over long distances through total internal reflection of light waves.
- Seismic waves are used to study internal structures of Earth. These types of waves include \_\_\_\_\_ and P waves.
- \_\_\_\_\_ waves are electromagnetic waves with the longest wavelengths and shortest frequencies commonly used in communications.
- \_\_\_\_\_ discs store digital information such as music or videos and can be read using reflected laser light.