**Uses of Ultrasound Technology Quiz Answer Key**

1. Which group correctly lists the categories of sounds based on frequency?
2. Loud, soft, whisper
3. Infrasound, people, ultrasound
4. **Infrasound, audible, ultrasound**
5. None
6. Describe how sound travels through different mediums.

**Sound travels faster through liquids than gases. Sound travels fastest in solids.**

**Sound moves through water at 1,484 m/s and sound travels through air at 343 m/s.**

**Sound moves more than 4 times as fast through water as air.**

1. Give at least 2 ways ultrasound technology can be used to help us in everyday life.

***Ultrasounds for medical scans***

***SONAR***

***Echolocation***

***Invisible fences***

***Finding cracks or breaks***

***Location of items, almost like GPS***

1. What have you learned about how to measure distances with sound?

**Sounds are sent out through vibrations. The vibrations can be created by a transducer. Sounds travel through a medium, contacts an object and the vibrations are reflected to a receiver. The time it takes for the vibrations to be sent out and received is measured. Knowing how fast sound travels through the medium helps know the distance.**

Key words to look for are highlighted.