**How Do Our Ears Work? Quiz Answers**

1. **How do humans hear sounds?**

**Humans hear sounds using our ears, which have an interesting set of bones and a fluid-filled structure, to determine sound types.**

1. **How does human hearing work? Sketch and label the system.**

**Sound waves enter through the outer ear, are amplified by the middle ear, and are converted into electrical impulses within the inner ear.**

**Any student drawings that are similar to the sketch below are acceptable.**

*Image source*: NASA via Wikimedia Commons http://commons.wikimedia.org/wiki/File:Outer,\_middle\_and\_inner\_ear.jpg

1. **Do you know of any sensor that detects sound and how it might do it? Explain.**

**A microphone is an example of a sensor that detects sound. It detects voices and instruments and converts them into electricity, which is sent to speakers that convert it back into sound.**