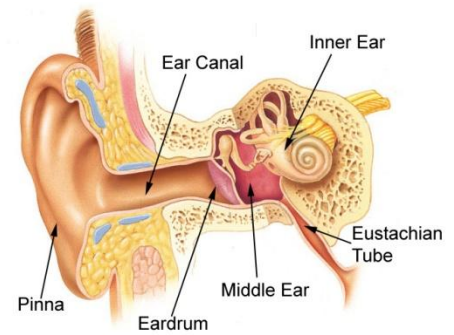


## **“Got a Moment” (#3)**

### **The Hearing Ear**



*Got a Moment? – Let’s talk about your ears!*

*Proverbs 20:12 says “The hearing ear and the seeing eye, The LORD has made both of them.” (NASB) God gave us special instruments so that we can hear and see. If our ears and eyes were not very complicated and sophisticated we might be tempted to believe those who try to tell us that they were just evolved over time by chance with no plan, no design & no creator. But if we find out that our ears and eyes are extremely complicated and fine tuned so that they function with amazing accuracy, well then we would easily come to the conclusion that they must have been created by an amazing God, which then would mean that our whole being was created by this amazing God.*

*We won’t have time to look at both the ear and the eye this time so we will just look at a few things about the ear.*

*First of all, have you ever wondered how sound is produced? Well, actually when a sound is produced by an object, or someone’s voice what happens is a vibration produces compressed pulses of air molecules that bump into other air molecules, which in turn bump into others, and continue in this way until they reach our ears. So all the wonderful sounds we hear are really just vibrations and compressed pulses of air molecules. The ear is so amazing that it can turn these pulses of air molecules into sounds we can understand and enjoy. Your ear can detect a change in air pressure so small it can be caused by a change in altitude only 1/30,000<sup>th</sup> of an inch. (That’s much less than the thickness of a sheet of paper.)(Wow!)*

*The ear has 3 parts, the outer ear, the middle ear and the inner ear. The part of our ears that we can see is called the “pinna” and is shaped in such a way to help catch sound waves from the airwaves and help us know from what direction the sound is coming. The air molecules travel down the ear canal to the eardrum. The sound waves traveling down the ear canal cause the eardrum to vibrate tiny amounts.*

*These tiny vibrations of the eardrum are then passed into the middle ear which consist of the 3 smallest bones in your body. These 3 bones are called “the hammer”, “the anvil” and “the stirrup” or “stapes”. The purpose of the middle ear bones is to amplify the vibrations by 20xs and send the vibrations*

*into the inner ear which consists of a system of canals containing liquid (mostly water).*

*The inner ear has something called “the organ of Corti” in it which converts the mechanical vibrations coming from the middle ear into electrical signals that are understandable to your brain. This process involves tiny hairs inside the inner ear and is way too complicated to attempt to explain in this short video, but nevertheless these electrical signals are passed along from the inner ear to the brain where they are processed and interpreted.*

*The result is this. You hear sounds, you can hear people voices and know who is talking and what words they are saying. You can even tell if they are mad or happy by the sound of their voice. You can listen to music, hear birds sing, listen to the rain falling or the ocean waves rolling. All of this by air molecules bumping together. All because you have a pair of absolutely amazing instruments God has given you. Your ears are a testament to the amazing wisdom and power of God. Some believe it’s all without design, just by chance. That would take a lot of ignoring the evidence wouldn’t it.*

*And then there are your eyes! But that’s for another time. Bye for now!*

*For video only (no audio) – For further information see DVD  
“The Hearing Ear and The Seeing Eye”*

Discussion Questions:

- (1) Do your ears, and their ability to hear seem to be designed or just randomly put together by chance?
- (2) Do speakers in a sound system (that work as the speakers vibrate) work by chance or were they designed by someone with intelligence? (Compare to the human ear)
- (3) What other special abilities can you think about that parts of your body have?

Pray Together as a Family! (Thank God for all the wonderful things about your body!)