Sound waves enter through the:

- Aurical (pinna)
- To the External Auditory Canal
- Which Vibrates the Tympanic membrane
- Which Vibrates the Malleous
- Which Vibrates the Incus
- Causing the Stapes to vibrate against the Oval Window
- Which Vibrates the Perilymph of Scala Vestibuli
- Causing the Vestibular membrane to vibrate at the same frequency & simultaneously

- Vibrates the Endolymph of Cochlear Duct
- Which Vibrates the Basilar Membrane
- Moving the hair cells of the Organ of Corti (spiral organ) against the Tectorial Membrane
- The Stimulated hair cells synapse with sensory neurons in the Spiral Ganglion
- Sending an action potential along these axons out of the Cochlear Branch of the Vestibularcochlear nerve (VIII)

- Travels in the vestibular duct to the apex of the cochlea

- Sound energy transmitted to the Perilymph of Scala Tympani
- Sound energy dissipated through the Round Window into the air filled middle ear cavity
Scala Vestibuli
Scala Tympani
Cochlear Duct
Organ of Corti
Hair Cells
Tectorial Membrane
Basilar membrane