

1. Describe the main function of the ossicles in the auditory system.
2. Where does the process of transduction (conversion of environmental energy into a neural signal) occur within the cochlea?
3. How does the bending of hair cell cilia towards the longest cilium lead to depolarization?
4. Compare and contrast Place Coding and Temporal Coding as mechanisms for encoding sound frequency in the auditory system.

5. What is the limitation of Spiral Ganglion firing rate in relation to Temporal Coding?
6. What is the Volley Principle?
7. How do different cues the auditory system uses for sound localization (Intensity Differences, Phase Differences, Timing Differences) get processed to determine the direction of a sound source?
8. Where in the auditory pathway is information from both ears first combined, and why is this site important?
9. Describe the concept of across fiber coding.