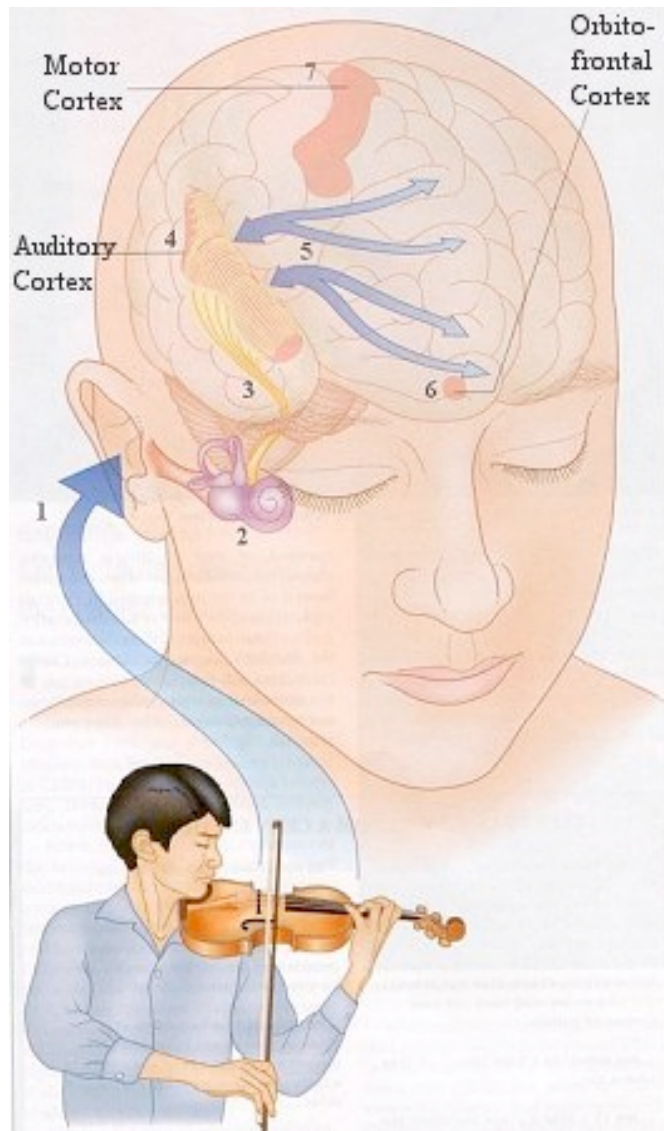


Audio – Sound



<http://universe-review.ca/R12-03-wave.htm>

1. Sound waves travel to the outer ear.
2. The sound waves are transduced into neural impulses by the inner ear.
3. The information travels through several waystations in the brainstem and midbrain to reach the auditory cortex.
4. The auditory cortex analyses and interprets the various aspects of the sound (comprehension, naming, verbal).
5. Information from this region interacts with many other brain areas, especially the frontal lobe, for memory formation and interpretation (episodic and declarative memory).
6. The orbitofrontal region is one of many involved in emotional evaluation.
7. The motor cortex is involved in sensory-motor feedback circuits, and in controlling the movements needed to produce music using an instrument.