

# TEMPORAL LOBE: AUDITORY ANATOMY

Reference Guide & Clinical Observations

*[ Lateral View of Human Brain - Temporal Lobe Highlighted ]*

## **Primary Auditory Cortex (A1)**

Located in the Superior Temporal Gyrus (Heschl's Gyri). Responsible for processing sound frequency and pitch.

## **Wernicke's Area**

Posterior segment of the Superior Temporal Gyrus (typically left hemisphere). Critical for language comprehension.

## **Superior Temporal Gyrus**

Contains the auditory cortex; involved in processing phonological structures and social perception.

## **Middle & Inferior Gyri**

Associated with visual perception, word retrieval, and semantic memory processing.

## **CLINICAL NOTES**

Educational Template Only - Anatomical Reference Chart