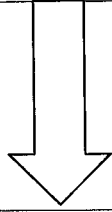


Annexure K



Filter selection

Tables for Filter Selection Presented on Single Page

(5a) 'Primary peaks' or 'primary pairs' refer to two specific peaks present in the same ear. All of the primary pairs include 8 KHz and one other peak. The chart below lists different primary peaks associated with 8 KHz, the amount or difference between the two adjacent frequencies, and the priority of filtering.

Table A: Filter Priorities for Peaks Associated with 8 KHz

Primary Peaks Associated with 8 KHz	Minimum difference from adjacent frequencies	Priority
2.0 KHz	5-5 dB	1st
1.5 KHz	5-5 dB	2nd
3.0 KHz	5-10 dB	3rd
1.0 KHz	5-10 dB	4th
750 Hz	10-10 dB	5th
4.0 KHz	10-10 dB	6th

(9) Secondary peaks. If primary peaks are not present in the audiogram, then single peaks, if present, should be filtered. These are referred to as 'Secondary Peaks.' In rare instances, three or more secondary peaks may be present in the audiogram that meet criteria for filtering. Since only two filters can be activated simultaneously, Dr. Berard recently suggested a priority for selecting the two secondary peaks to be filtered.

Table B: Secondary Peaks

Secondary Peaks	Minimum difference from adjacent frequencies	Priority
2.0 KHz	10-10 dB	1st
1.5 KHz	10-10 dB	2nd
3.0 KHz	15-15 dB	3rd
1.0 KHz	10-10 dB	4th
4.0 KHz	10-10 dB	5th

(10) Plateaus. A 'plateau' refers to two peaks occurring next to each other. A plateau should be filtered if no other peaks are present, and the individual is having difficulty pronouncing vowels and diphthongs.

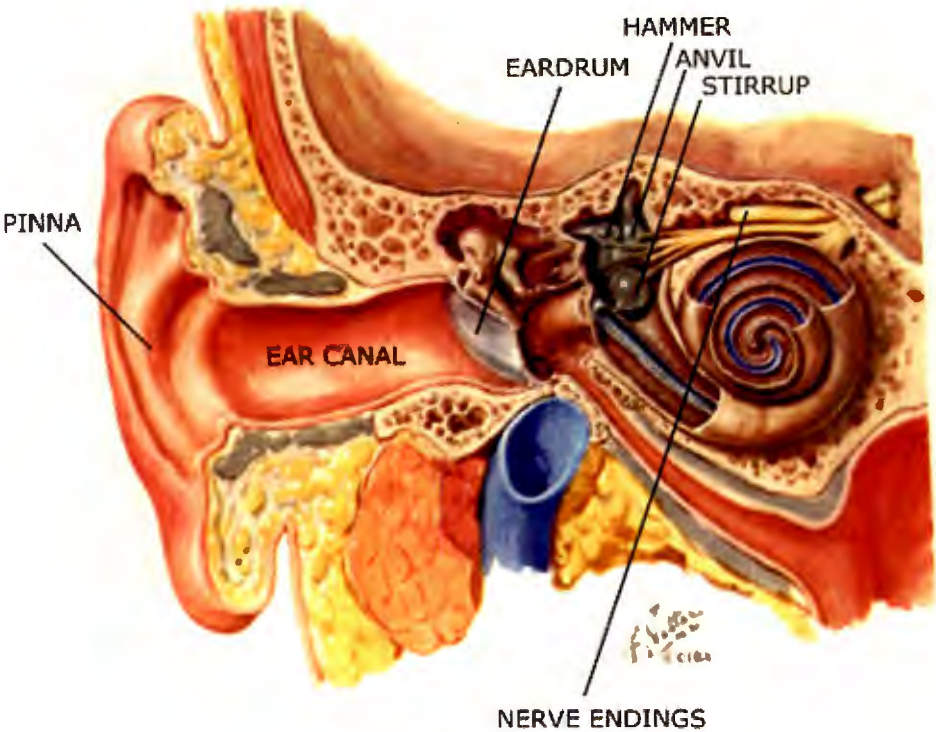
Table C: Plateaus

Plateaus	Minimum difference from adjacent frequencies
1.0 and 1.5 KHz	5-10 dB
1.5 and 2.0 KHz	5-10 dB

Annexure L

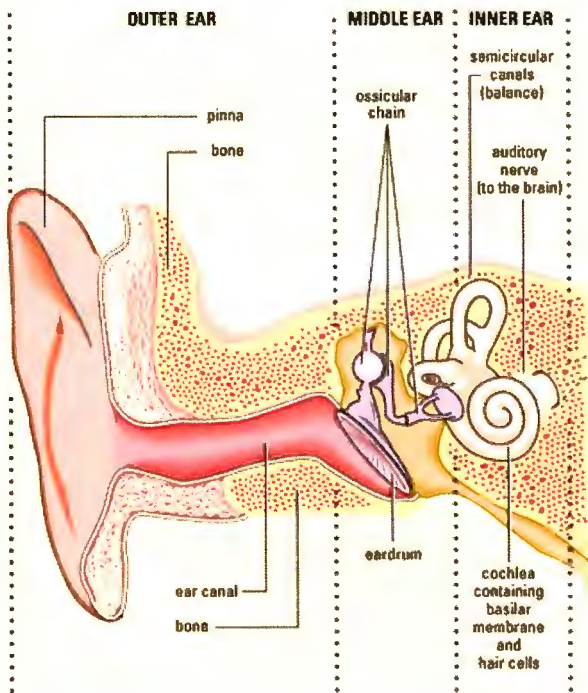
- Figure 3.1 - Auditory System
- Figure 3.2 - Inner Ear
- Figure 3.3 - Cochlea
- Figure 3.4 - Auditory nerve
- Figure 3.5 - Vestibular system
- Figure 3.6 - Vestibular – Cerebellum connection
- Figure 3.7 - Brainstem
- Figure 3.8 - Speech perception
- Figure 3.9 - Working memory
- Figure 3.10 - Cochlear nucleus
- Figure 3.11 - Reticular activating system
- Figure 3.12 - Cerebral cortex
- Figure 3.13 - Temporal lobes
- Figure 3.14 - Arousal
- 0 - Figure 3.15 - Descending pathways
- 0 - Figure 3.16 - Cerebellum
- 1 - Figure 3.17 - Frontal cortex

Figure 3.1: The Auditory System



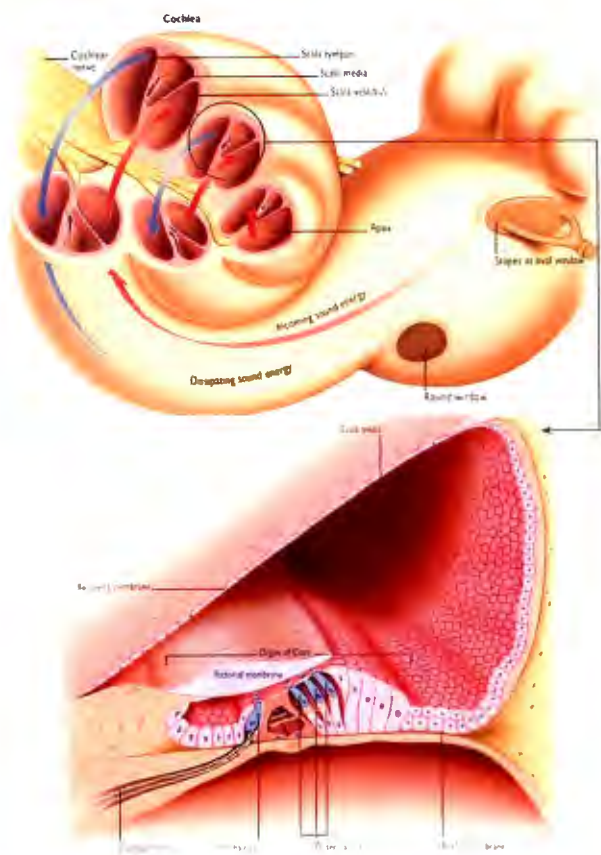
www.thehearingdoctorstl.com/hearing_basics.html 2010/02/27

Figure 3.2: The Inner Ear



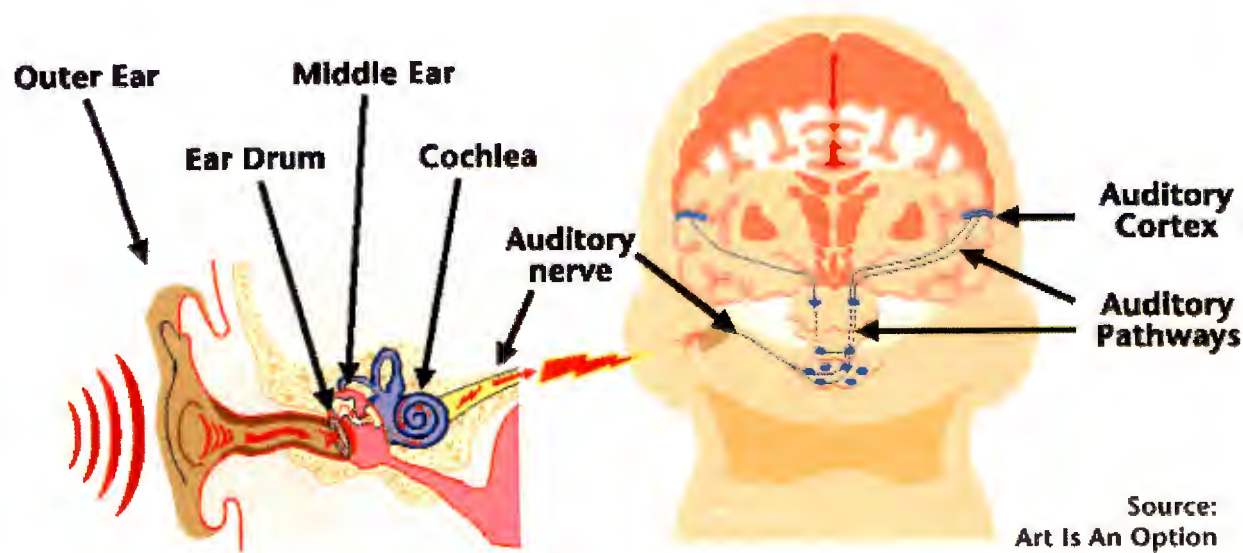
http://emusician.com/onstage/technical_features/saywhat 2010/02/27

Figure 3.3: Cochlea



<http://universe-review.ca/10-85-cochlea.jpg> 2010/02/27

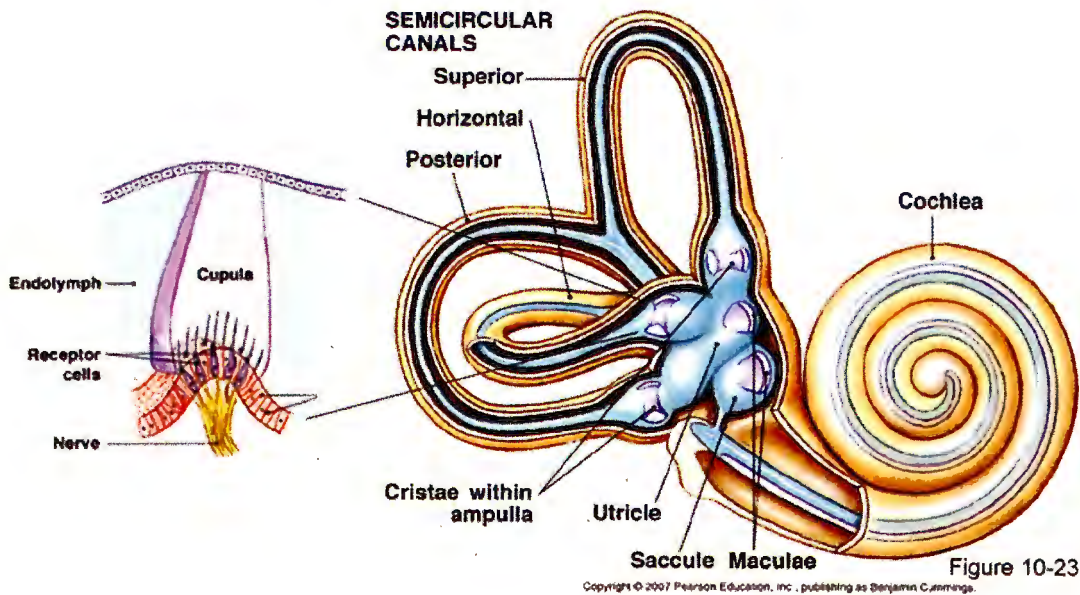
Figure 3.4: Auditory Nerve



Source:
Art Is An Option

www.nhslothian.scot.nhs.uk/news/annual_reports 2010/02/27

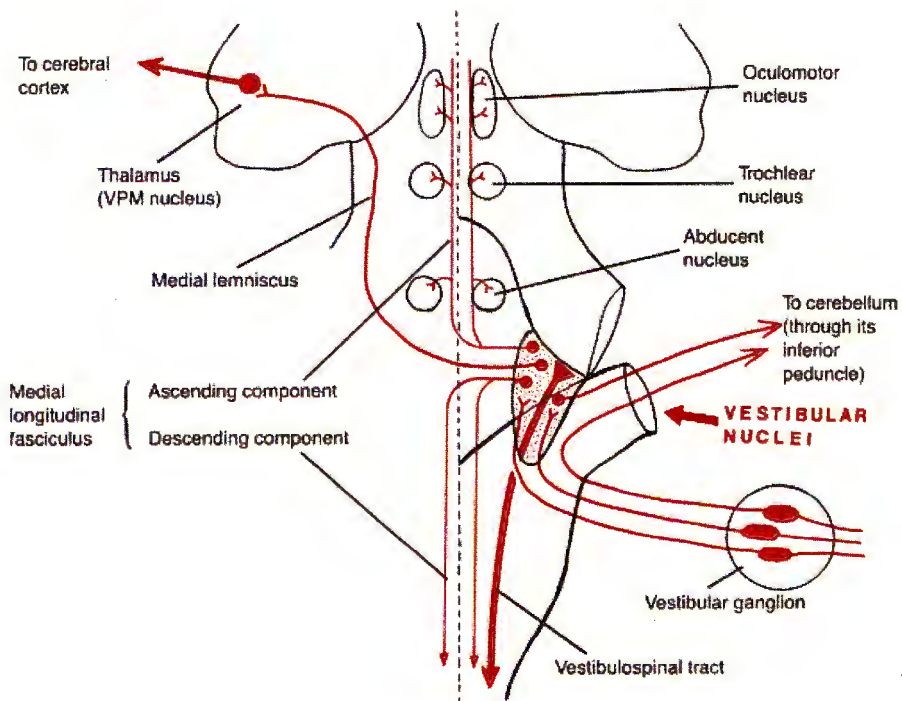
Figure 3.5: The Vestibular System



www.autism-community.com/sensory-processing-dysfunction-vestibular-activation 2010/02/27

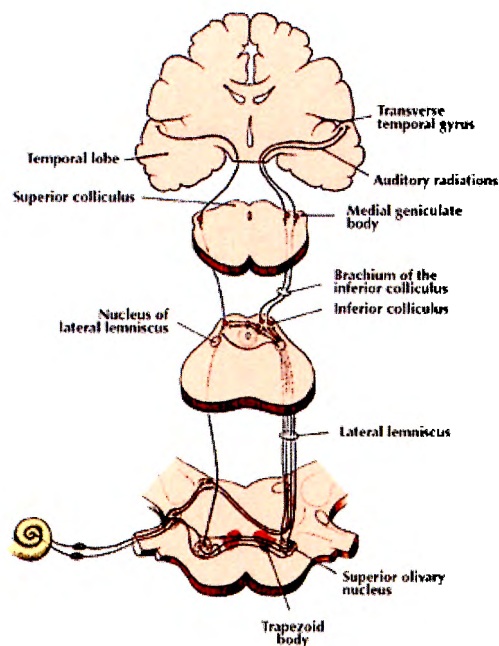
Figure 3.6: Vestibular - Cerebellum connections

Central connections of the vestibular system



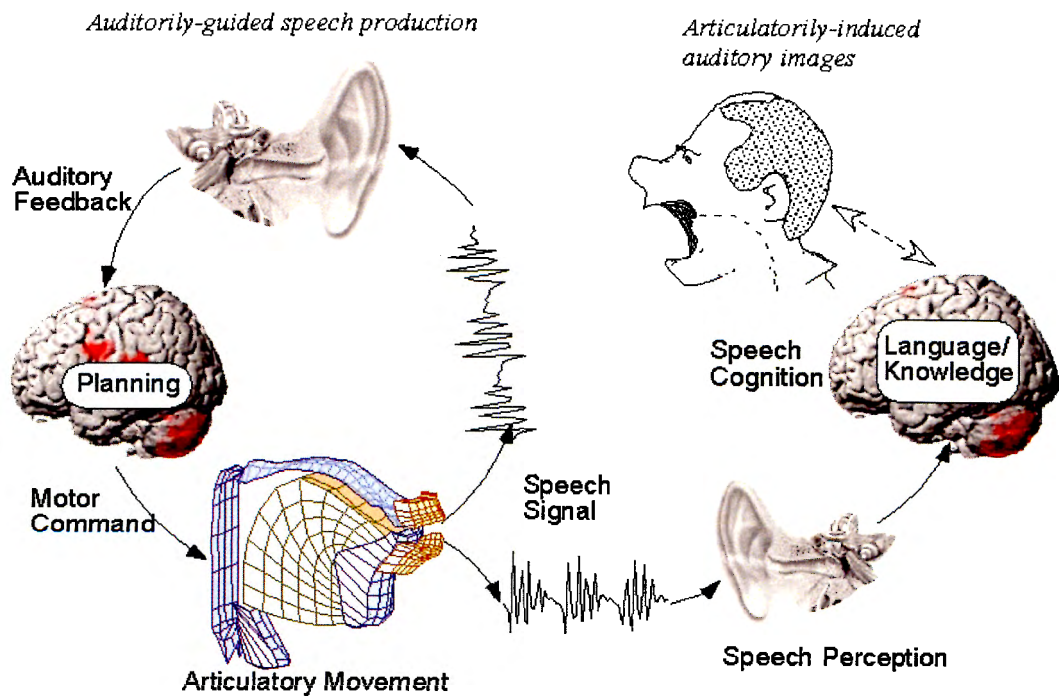
<http://instruct.uwa.ca/anatomy/530/vestpath.gif> 2010/02/27

Figure 3.7: Brainstem



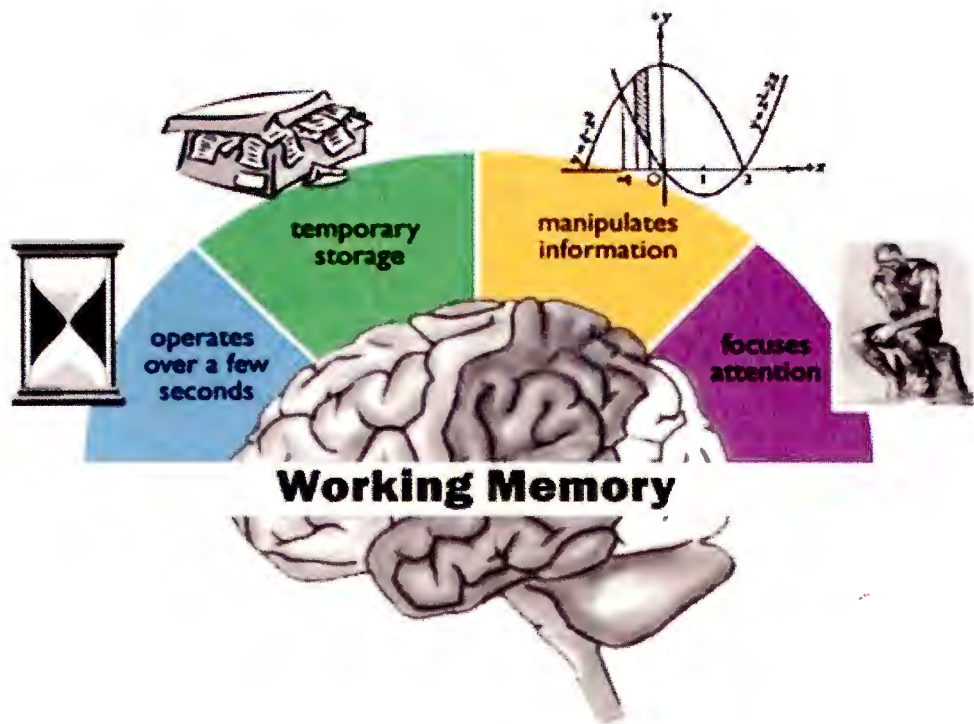
<http://ivertigo.net/graphics/audiology/pathsLAB.jpg> 2010/02/27

Figure 3.8: Speech Perception



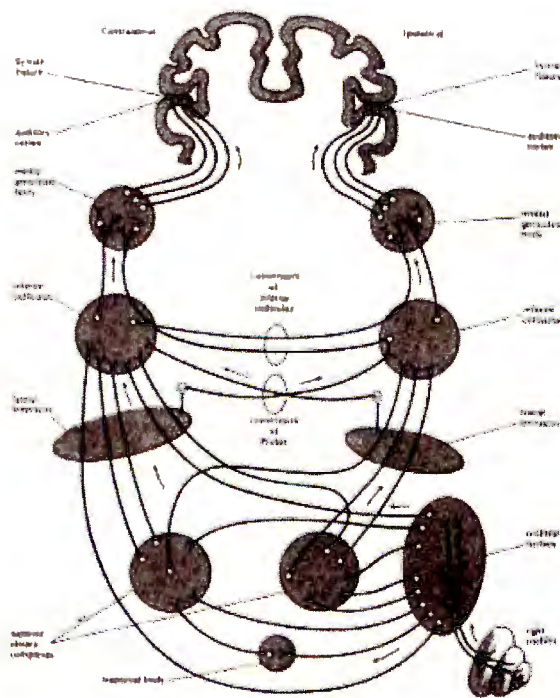
www.jaist.ac.jp/profiles/pict/fig00715.jpg 2010/02/27

Figure 3.9: Working Memory



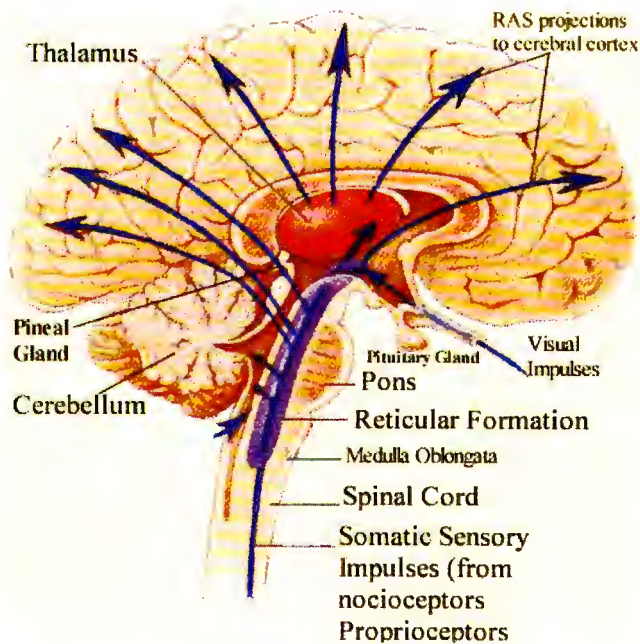
http://usablealgebra.landmark.edu/wp_content/uploads/200 2010/02/27

Figure 3.10: Cochlear Nucleus



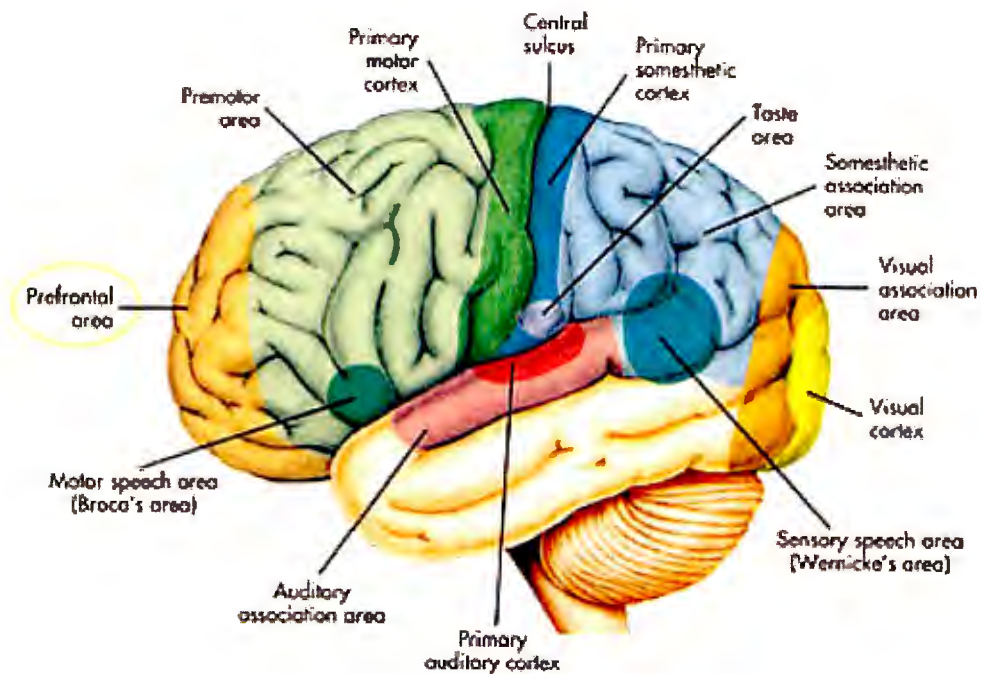
www.michaelchorost.com/blog/2008/01/26/shopping-around-for-vowels/ 2010/02/27

Figure 3.11: Reticular Activating System



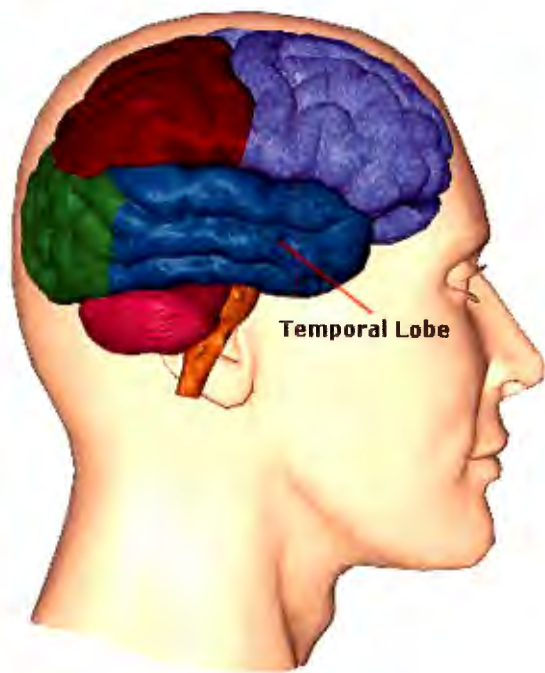
www.learningdiscoveries.com.au/RASarousal.gif 2010/02/27

Figure 3.12: Cerebral Cortex



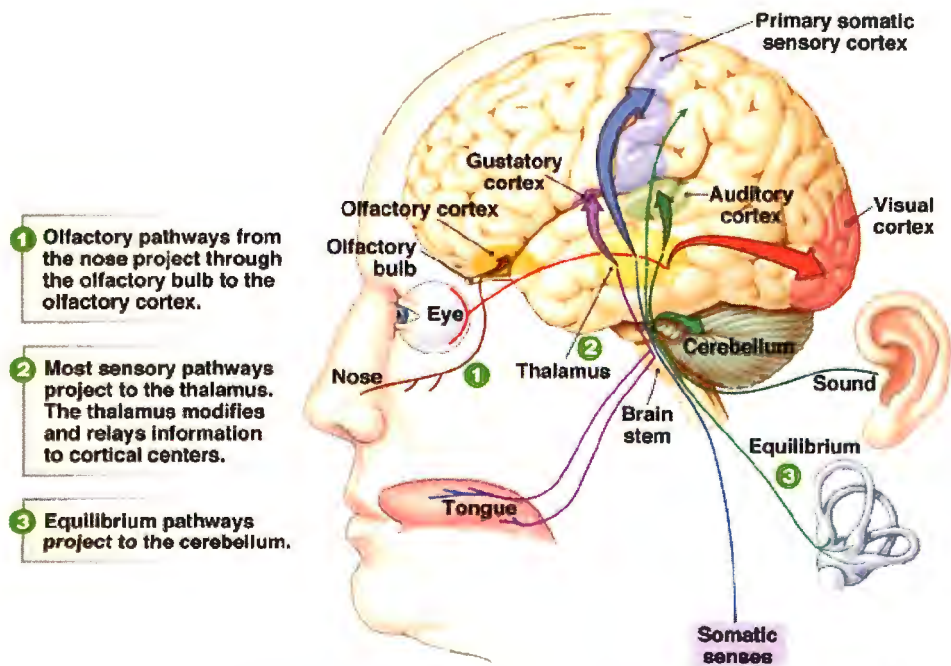
<http://theunjustmedia.com/Islam/Science/ch1-1-d-img1.jpg> 2010/02/27

Figure 3.13: Temporal Lobes



http://3.bp.blogspot.com/_w15dx0SiQ5k/SODqzaUjL4I/ 2010/02/27

Figure 3.14: Arousal



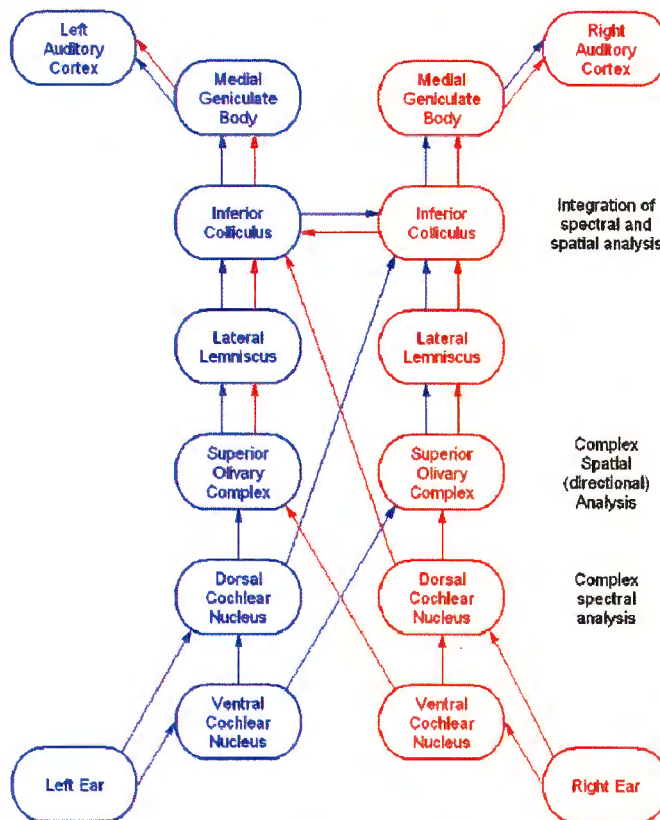
Copyright © 2007 Pearson Education, Inc., publishing as Benjamin Cummings.

Fig. 10-4

www.colorado.edu/IPHY3430-200/image/10-4.jpg

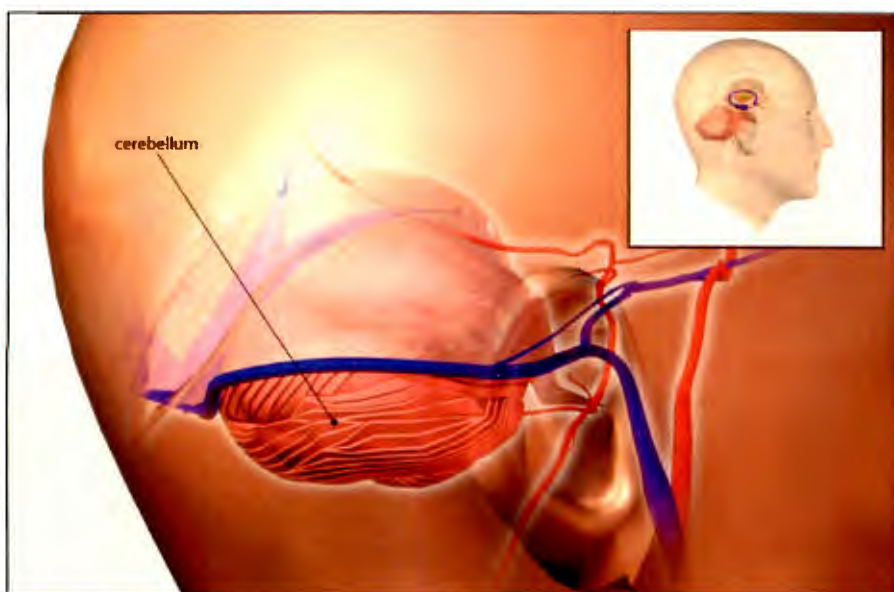
2010/02/27

Figure 3.15: Descending Pathways



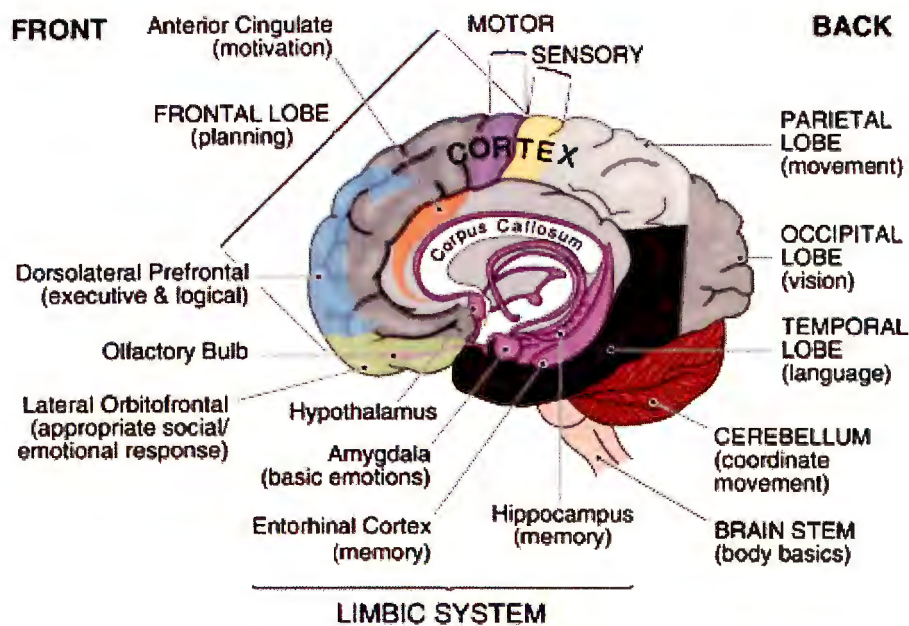
www.zainea.com/brainstem.gif 2010/02/27

Figure 3.16 Cerebellum



<http://3d-brain.ki.se/atlas/images/cerebellum.jpg> 2010/02/27

Figure 3.17: Frontal Cortex



www.brainwaves.com/images/brain-

2010/02/27