How the brain works

What Your Brain Looks Like

Your Brain

• 100 billion neurons (nerve cells).
• Brain cell have from 1,000 to 50,000 connections to other brain cells.
• Right side of brain controls left side of body, left side of brain controls right side of body.

Your Brain is full of nerve cells, but it has no pain receptors.
Doctors can operate on your brain while you’re awake—and you won’t feel a thing!
Messages from brain to muscle travels as fast as 250 m.p.h.

MRI of Human Brain

Anatomy of a Sheep Brain

Regions of Your Brain do different jobs

• Frontal lobe - reasoning, planning, speech, movement, emotions
• Parietal lobe - perception of stimuli
• Temporal lobe - memory, auditory stimuli
• Occipital lobe - perception of vision

Maps of brain

Brainstem

Does all the things you need to do to live—breathe, pump blood, sleep, wake up, and digest food.

Cerebellum

Helps you jump, walk, play ball, and pick things up.
Controls all of your movements and balance.
Your cerebellum is the reason you don’t fall over all the time!

Limbic System

The limbic system is where your emotions live
Memories also live in the limbic system