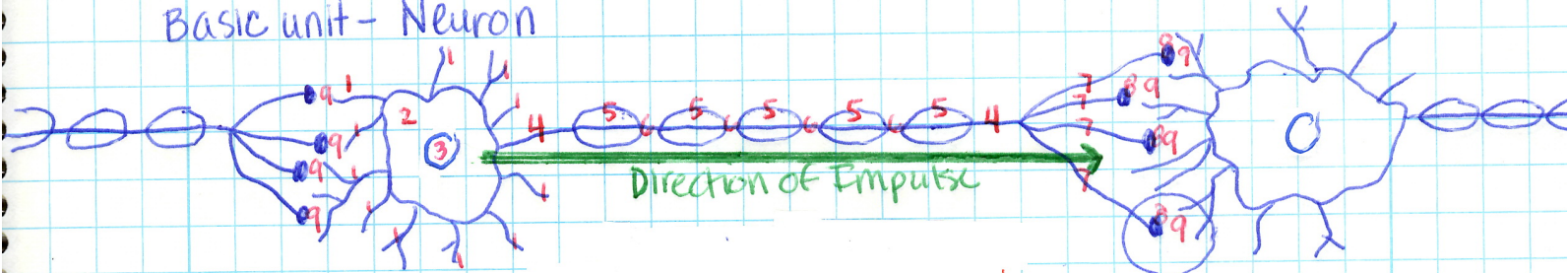
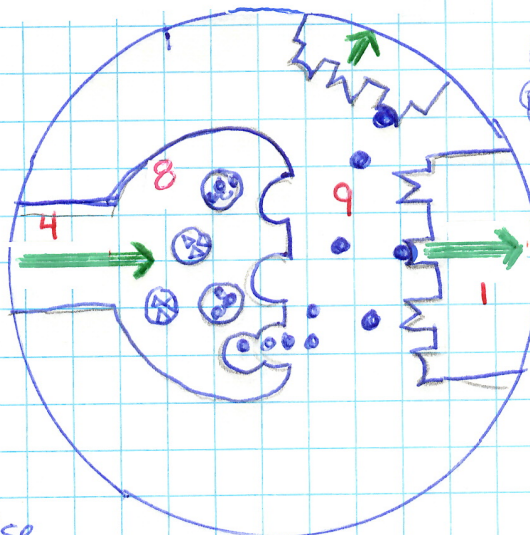


Regulation - Control.

Basic unit - Neuron



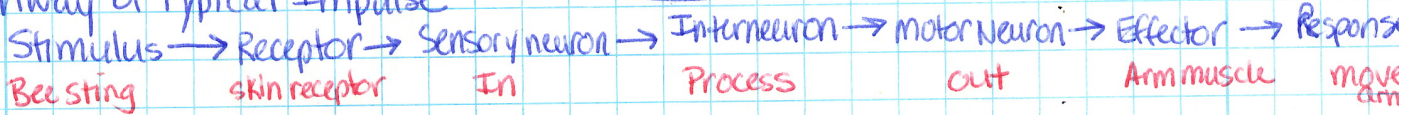
- 1 Dendrites
- 2 Cell Body
- 3 Nucleus
- 4 Axon
- 5 Myelin Sheaths
- 6 Nodes of Ranvier
- 7 Terminal branches
- 8 Terminal buttons
- 9 Synapses



Blown up Synapse

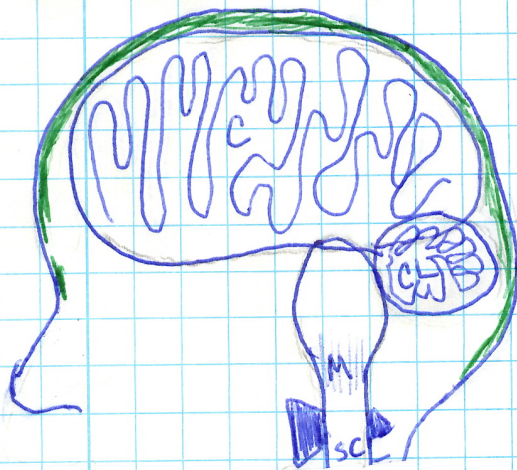
Neurotransmitters (O) released by terminal but of one neuron are picked up by cell receptors (M) on dendrite of another neuron to pass on impulse →

Pathway of typical Impulse



Reflex Arc - Interneuron in spinal cord. Never reaches brain. Automatic (No Brainer)

Central Nervous System (CNS) - Just the brain and the spinal cord ONLY



Skull - Protects brain

C - cerebrum - Thoughts, memory, interpretation  
Motor (voluntary movements)

CL - Cerebellum - coordinates and controls voluntary

M - Medulla - Coordinates involuntary <sup>Sensory</sup> Breathing, Heart rate, Blood Pressure

SC - Spinal Cord - Connects brain to body & reflex arc

Spine - protects spinal cord

Peripheral Nervous System - every nerve EXCEPT brain & spinal cord

Autonomic - Involuntary - smooth muscle (guts)

heart, breathing rate, blood pressure

Somatic - Voluntary - skeletal muscles

MALFUNCTIONS OF NERVOUS SYSTEM  
Cerebral palsy - congenital  
Meningitis - bacterial or viral  
Polio - viral  
stroke - clot or hemorrhage