

### Nervous System

All information from our environment is detected by some specialized tips of nerve cells called receptors.

Types of receptors are:

They convert stimulus into electrical impulses that travel from the dendrite to the cell body and along the axon to the end.

Gustatory - Present in Tongue

Then, the converted chemicals cross the synapse and start a similar electrical impulse in the dendrite of the next neuron.

Olfactory - Present in Nose

Thigmo - Present in Skin

Auditory - Present in Ear

Photo - Present in Eyes

### Reflex Actions

Reflex actions are sudden involuntary responses which do not involve thinking.

Sequence of a Reflex Arc

Reflex Arc describes the pathway in which the nerve impulse is carried and generation of the response is shown by the effector organ.

1. Receptors = Heat/Pain

Nerves from all over the body meet in a bundle in the spinal cord on their way to the brain. Reflex Arcs are formed in the **spinal cord**.

2. Sensory Neuron

3. Spinal Cord (Central Nervous System)

4. Message to Brain

5. Relay neuron

6. Motor Neuron

7. Effector Organ

