

Name: _____ Date: _____

Period: _____ Do Now# 3.6 Homework: 3.6

Aim: How do neurons transmit nerve impulses?

Vocabulary: (10)
 1. neuron 3. neurotransmitters 5. axon 7. receptors 9. interneuron
 2. impulse 4. dendrites 6. synapse 8. effectors 10. mixed nerve

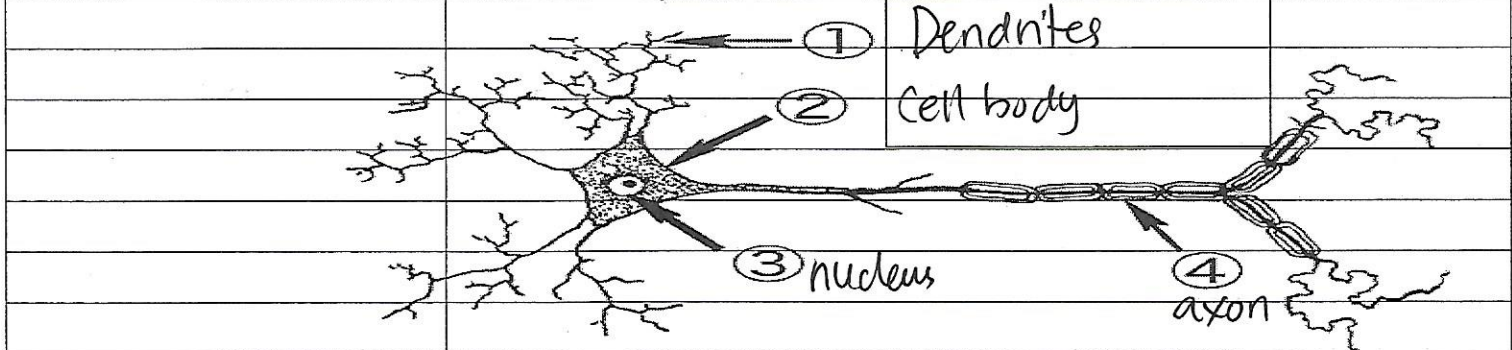
What is regulation?
 • Control and coordination of life functions.
 • Maintained by the Nervous system and the Endocrine system.

What are the cells in the nervous system called?
 • Nerve cells cells or Neuron.

How do we describe a neuron?
 1. Functional unit of the nervous system.
 2. Transmit or carry impulses (signals) to the brain.
 3. A neuron secretes neurotransmitters.

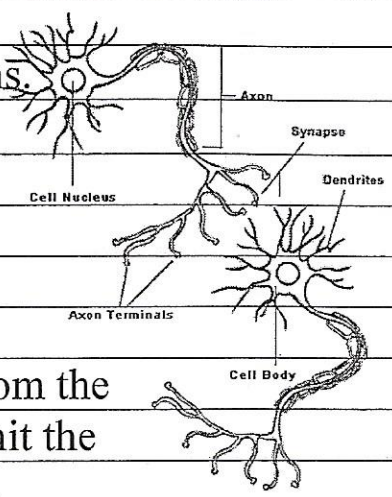
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 Chemicals that carry impulse from one neuron to another neuron.

Neuron=1 nerve cell
 A group of neurons is a NERVE!



What are the parts of a neuron?
 1. DENDRITES
 • Receive impulses (signals).
 • Transmit the impulse to the cell body.

Questions/Main Ideas:	Notes:
What are the parts of a neuron?	2. AXON <ul style="list-style-type: none"> • Transmit impulses <u>away</u> from the cell body. • Protected by the <u>sheath</u>.
What is a SYNAPSE?	<ul style="list-style-type: none"> • A <u>space</u> in between neurons. • <u>Neurotransmitters</u> carry the impulses from one neuron to the next neuron.
How do the 3 types of neurons differ?	a. <u>Sensory</u> neuron ➤ <u>Transmit</u> stimulus from the <u>receptors</u> (sense organs) then transmit the message to the brain and spinal cord.
<i>A stimulus is a change in the environment that makes you react!</i>	b. <u>Motor</u> neuron ➤ Transmit impulses from the <u>brain</u> and <u>spinal cord</u> to the effectors. (muscles and glands)
Examples of stimuli: 1. <u>Change in temperature</u> 2. <u>change in light</u>	c. <u>Interneuron</u> ➤ Found in your <u>brain</u> and <u>spinal cord</u> . ➤ Transmit impulses from the <u>sensory</u> neuron to the <u>motor</u> neuron. ➤ Sensory neuron and Motor neuron together is a <u>mixed</u> nerve.
Predict what happens if Neuron 1 cannot release the neurotransmitter chemical ?	<u>Impulse will not be transmitted.</u>
	<i>A homework pass to the best answer!</i>



Summary: 2 points

- Neurons transmit impulses by
- The neuron is the
- If one neuron is blocked then
- My nervous system can maintain homeostasis by