**VIDEO GUIDE BOZEMAN BIOLOGY – NERVOUS SYSTEM**

1. Why does severing the corpus callosum help some epilepsy patients?
2. The base unit of the nervous system is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Neurons send messages through \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. To cross the gap, or synapse, between neurons \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are used.
5. Define each of the following parts of the neuron
   1. Dendrite
   2. Axon
   3. Cell body/soma
   4. Myelin
   5. Node of ranvier
6. How is a neuron like a salty banana?
7. Why is the outside of a neuron relatively positive?
8. If a neuron was a battery, what would be its voltage?
9. The flow of sodium ions is like \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ falling
10. After sodium flows into the neuron, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ channels open.
11. How is the ion gradient re-established?
12. How are action potentials different when the strength of the stimulus changes?
13. When the action potential reaches the end of the axon, it causes an influx of \_\_\_\_\_\_\_\_
14. The influx of \_\_\_\_\_\_\_\_\_\_\_ causes the release of \_\_\_\_\_\_\_\_\_\_\_\_ across the synapse.
15. How are inhibitory messages and excitatory messages different?