

Name _____

AP Biology**Chapter 50- Sensory and Motor Mechanisms****Guided Reading Assignment Campbell's 10th Edition****Essential Knowledge**

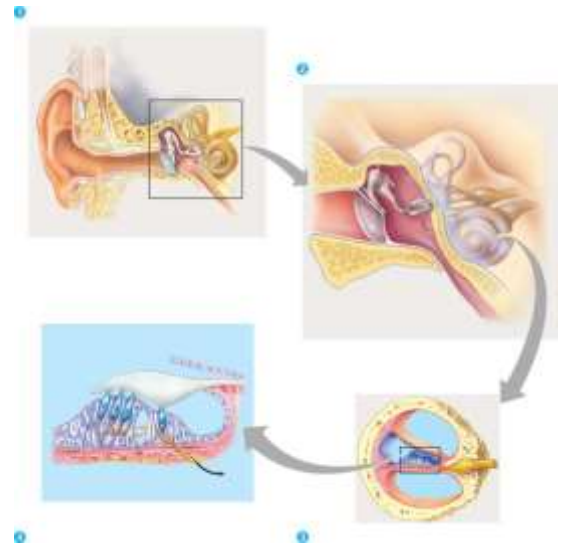
None

1. Label the three parts of a simple response pathway.

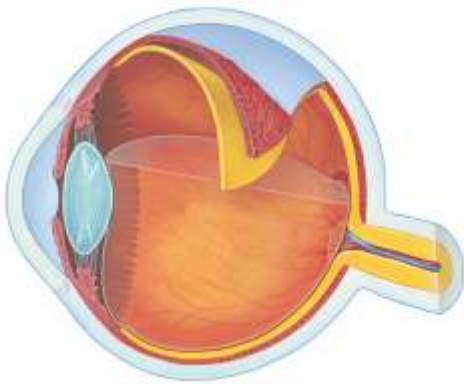


2. Describe each part of a pathway in 2-5 words
 - a. Sensory reception
 - b. Sensory transduction
 - c. Transmission
 - d. Perception
 - e. Amplification
3. Describe the following receptors and give an example of each:
 - a. Mechanoreceptors-
 - b. Thermoreceptors-
 - c. Chemoreceptors-
 - d. Electromagnetic receptors-
 - e. Pain receptors-
 - f. Exteroreceptors-
 - g. Interoreceptors-

4. Use the following figure to discuss the inner working of the human ear:



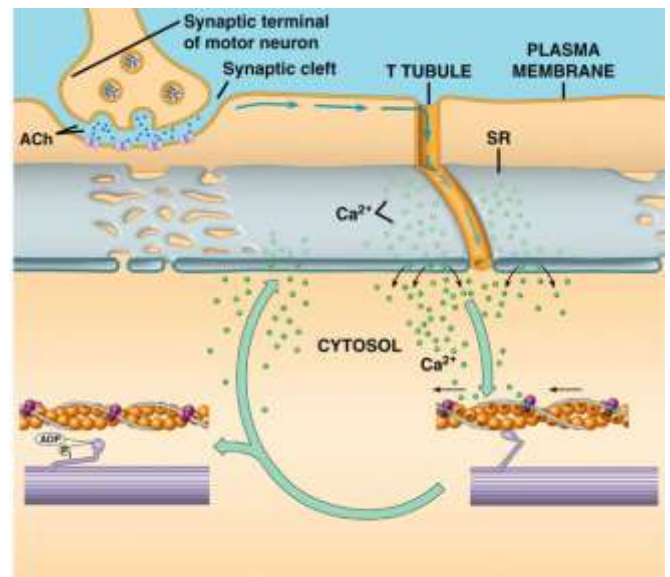
5. Describe the relationship between taste and smell in most organisms.



6. Label the following diagram of the structure of the vertebrate eye.

7. What purposes do the skeleton serve for land mammals?

8. How does the muscular system interact with the skeletal system to create movement?



9. Use the following diagram to explain muscle contraction from the nerve all the way to the roles of actin and myosin.

10. Compare and contrast the different types of muscles.