

BIO 25 PAL Worksheet
Week 7 (#1): Sensory Processing

Remember

1. All sensory information except _____ will first go through the _____ when it arrives in the brain.
2. Draw a rough sketch of the brain and indicate the sensory processing areas for vision, hearing, smell, taste, and feeling on the body surface.

Understand

3. Compared to most areas, the hand has....
 - A. a greater density of receptors per square inch
 - B. larger receptive fields
 - C. more cortical space allotted for sensory reception from the region
 - D. Both A and C are correct.
 - E. A, B and C are correct.
4. How would you answer the question above for the skin on the leg?
5. What is the relationship with size of receptive field and the cortical area in the brain? Draw a picture that supports your understanding.

Apply

6. Malik decides to throw marshmallows at his roommate's head because he won't change the channel to watch the football game. Malik's first marshmallow throw misses the mark. In order to adjust his throw to better hit his target, draw the neuronal sequence should be activated. What if he misses again? How can he improve his accuracy?