Post Assessment

Instructions: You have connected regions of the brain to specific muscle activities in your homunculus drawing. Use the preliminary homunculus map that you have drawn to answer the following questions:

1. When you move your finger and wrist to make the beating heart bigger, from which part of your brain are neurons recruited for this purpose?

2. Why was this region of the brain involved? Give one physiological example from your experiment.

3. When you made the beating heart smaller, from which part of your brain were neurons recruited for this purpose? Was it the same area as the first question? Why or why not?

4. What happened when you made a small or large diamond or square? How were the movements of the finger and wrist different? Why?

5. If you created your own animation, what happened? Were the movements of wrist and finger different? Why or why not?





Date:

6. Describe in a few sentences what you understand from drawing the homunculus. How does the homunculus help your understanding of how neurons are recruited for specific muscle activity? Give examples.

7. Describe how the pressure exerted by your finger and wrist changes as you change the animation in this experiment. Can you think of any physics principle that supports this evidence?

8. What is your understanding from this experiment of some factors that influence how the neurons are recruited for muscle activity? Give at least two examples.



