Human Reflexes and Reflex Arcs are covered in Lab. Review the components of a reflex arc and relate them to the cross section of the spinal cord. Use your textbook and Spinal Cord Lab to complete the following:

- List the components of a simple reflex arc and incorporate these components in a diagram of the cross section of the spinal cord.
- Compare spinal reflexes to cranial reflexes

See Exercise 22 in your Lab Manual

**Spinal Reflexes:**

1. Stretch Reflex (tendon reflex)
   a. Monosynaptic or polysynaptic?
   b. Ipsilateral or contralateral?
   c. Examples
      1) Patellar (knee jerk)
      2) Achilles (ankle jerk)

2. Flexor (withdrawal) and Crossed Extensor Reflexes
   a. Monosynaptic or polysynaptic?
   b. Ipsilateral or contralateral?
   c. Intersegmental (explain)
   d. Reciprocal inhibition (explain)

3. Superficial Cord Reflexes
   a. Plantar reflex (positive vs. negative Babinski sign)
   b. Abdominal reflex (don’t test in lab)
   c. Cremasteric reflex (don’t test in lab 😊)

**Cranial Nerve Reflexes:**

1. Gag Reflex
   a. Describe how it is tested.
   b. Which cranial nerve(s) is/are being tested?

2. Pupillary Reflex (Read lab manual carefully)
   a. Describe how it is tested.
   b. What are the receptors?
   c. What are the effectors?
   d. Which cranial nerve(s) is/are being tested?
   e. What is meant by a consensual response?
   f. Is it ipsilateral or contralateral?