**Kingdom Animalia**

 Name:

 Date:

**Read p. 657 – 663 to help you answer the following animal introductory questions.**

1. What is an animal? What characteristics define animals?
2. What is the difference between an invertebrate and a vertebrate?
3. Explain seven essential functions animals carry out in order to survive. **\*\*\*\* Critical Question! \*\*\*\***
4.

1. As you look at the evolutionary trends in animals, what features do complex animals tend to have?

1. What is the difference between a protostome and a deuterostome?
2. During early development, embryos differentiate into 3 layers. Where is each layer located and what future structures will each layer produce?

Endoderm:

Mesoderm:

Ectoderm:

1. What is typically a more advanced form of body symmetry, radial or bilateral? Make a simple sketch to show the difference.
2. Bilateral symmetry leads to cephalization. What is cephalization and why is it an evolutionary advancement?
3. Why is it helpful to have a body cavity?