**Criteria for classifying Animals. Name.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

There are many characteristics used in classifying animals, many of which are developmental features for which there are several different types. Create a reference **document that you can refer back to throughout the semester, which describes** and illustrates each of the major categories.

**Deuterostome/protostome**

**Number of germ layers**

**Body Plan** Outline/describe and sketch each of the 3 Body Plans. Provide an example of each.

1. Cell aggregate plan
2. Blind Sac plan
3. Tube within a tube.

**Symmetry.** Provide a sketch and an explanation to illustrate each type of symmetry. Give examples

1. Asymmetry
2. Radial symmetry
3. Bilateral symmetry.

**Body Cavity.** Provide a sketch and an explanation to illustrate each type of body cavity. Give examples.

1. Acoelomate.
2. Pseudocoelomate
3. Coelomate

**Body Segmentation.** Provide a sketch and an explanation to illustrate each type of symmetry. Give examples

1. Hard exoskeleton
2. Jointed Limbs
3. Many Limbs

**Type of fertilization.** Describe each type, with an illustrative example.

1. External

 B. Internal

**Type of birth.** Describe the basic features of each birth type. Give examples.

Eggs.

Larvae/nymph

Live young

**Body Support and Protection.** Provide a sketch and an explanation to illustrate each type of Body support and protection. Give examples

1. Soft body, no exoskeleton
2. Soft body, exoskeleton
3. Endoskeleton with cartilage
4. Endoskeleton with bone
5. Other types of protection / support