

# Animal Anatomy Study Guide

## Animals

- What is an animal?
- What is anatomy?
- What are tissues, organs and organ systems?
- An animal has to carry out many functions. What are they?
- What is a phylum? How does it compare to domains and kingdoms?
- How are animals classified?
- What are the characteristics of cnidarians, flatworms, Echinoderms, mollusks, segmented worms, arthropods and chordates? See the branched tree.
- What are examples of animals from each phylum?
- What are the functions of the following organ systems: digestive, respiratory, excretory, nervous and muscular/skeletal?
- Know the difference between anterior, posterior, dorsal and ventral.

## Worms

- Know the characteristics of worms.
- What are the three phyla (types) of worms?
- How is the earthworm adapted to its environment?
- Explain how food gets digested (broken down and absorbed) in worm.
- Know the role earthworms play in their environment.

## Chordates/Vertebrates

- What are the characteristics of vertebrates?
- How are vertebrate that live on land adapted to the challenges gravity presents?
- What is the difference between cold-blooded and warm-blooded animals?

## Amphibians

- What is an amphibian? What are the different types of amphibians?
- What are three main characteristics of an amphibian?
- What are four adaptations of amphibians for living on land?
- How does blood move through a frog?
- Know the system and the role they play and where they are located.
- What is the life cycle of a frog?

## Identifications

Be able to label the following structures: Worm: Mouth, Setae, Clitellum, Anus, Pharynx, Esophagus, Crop, Gizzard and Intestine. Frog: Liver, Gall bladder, Stomach, Small intestine, Large intestine, Heart, Lungs, Kidneys

## Organ systems of worm and frog

*You may use your Worm & Frog Organ Systems Chart as a reference sheet while taking the test.*

- For each system below, be able to make comparisons and identify contrasts between the worm and the frog.
  - Digestive, respiratory, circulatory, excretory, nervous and muscular/skeletal
- These are example of questions you might be asked...
  - Describe the circulatory system of the frog.
  - Compare the nervous system of the worm and frog.
  - What are the differences between the respiratory systems of the worm and the frog?
  - How is the muscular/skeletal system of the frog better suited for dealing with gravity than the worm?