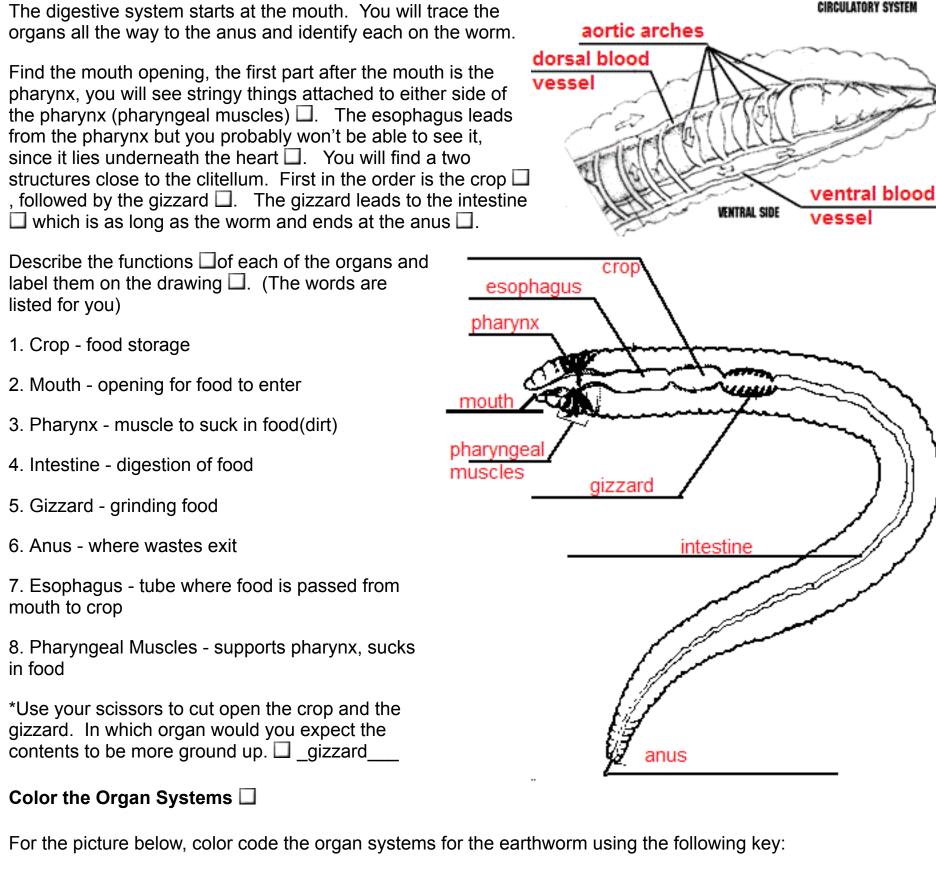
Earthworm Anatomy KEY

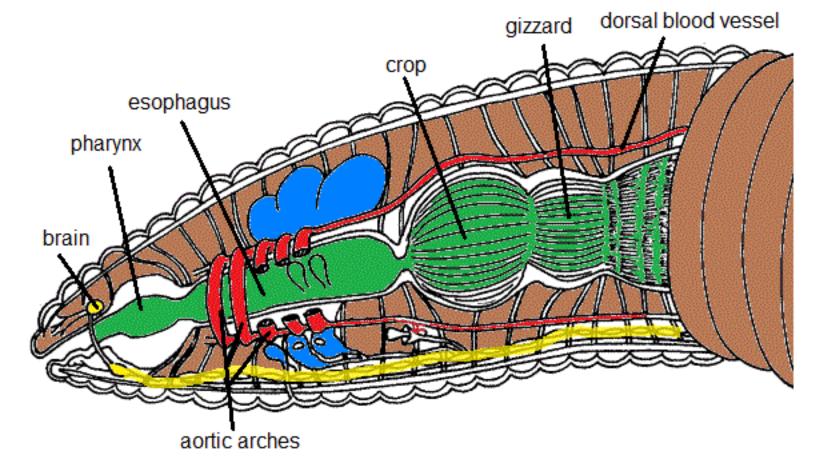
External Anatomy

Digestive System

Examine your earthworm and determine the dorsal and ventral sides. Locate the two openings on the ventral surface of the earthworm \Box
The openings toward the anterior of the worm are the sperm ducts The openings near the clitellum are the genital setae . Label them on the worm pictured to the right. \Box
Locate the dark line that runs down the dorsal side of the worm, this is the dorsal blood vessel . The ventral blood vessel can be seen on the underside of the worm, though it is usually not as dark. \Box
Locate the worm's mouth and anus . □ Note the swelling of the earthworm near its anterior side - this is the clitellum . Label the clitellum.□
Internal Anatomy
 Place the specimen in the dissecting pan DORSAL side up. □ Locate the clitellum and insert the tip of the scissors about 3 cm posterior. □ Cut carefully all the way up to the head. Try to keep the scissors pointed up, and only cut through the skin. □ Spread the skin of the worm out, use a teasing needle to gently tear the septa (little thread like structures that hold the skin to organs below it) □ Place pins in the skin to hold it apart, angle the pins out so that they are not in your way.
Reproductive System genital genital
The first structures you probably see are the seminal vesicles . They are cream colored and located toward the anterior of the worm. These are used for producing sperm. Use tweezers to remove these white structures from over the top of the digestive system that lies underneath it. \Box
Circulatory system
The dorsal blood vessel appears as a dark brownish-red vessel running along the intestine. The heart (or aortic arches) can be found over the esophagus (just posterior to the pharynx). Carefully tease away the tissues to expose the arches of the heart, the run across the worm. If you are careful you can expose all 5 of them. \square
The ventral blood vessel is opposite the dorsal blood vessel, and cannot be seen at this time because the digestive system covers it.
Label the diagram (use the bold words from above) \square
Does the earthworm have a closed or open circulatory system?
closed



Circulatory System - Red | Reproductive System - Blue | Digestive System - Green | Nervous System - Yellow



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