Phylum Annelida

2		
nelids		
Meaning:		
Common Name:		
Classes:		
•	– sandworms, bristle	eworms
		body cavity
	·····	body cavity
Tissue layers		ectoderm endoderm Archenteron digestive tract
production – Class Polvchaeta (sandwor	rms & bristleworms	coerom
		_
Fertilized eggs can develop into a	,	Aprical tuft
	Common Name: Classes: •	nelids Meaning: Common Name: Classes: •

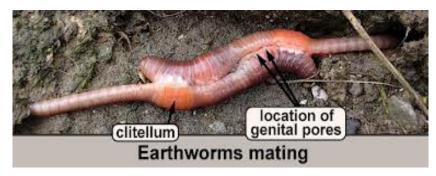
Reproduction – Class Oligochaeta & Hirudinea (Earthworms and Leeches)

- Sexual reproduction
 - _____ with cross fertilization at the
 - Clitellum is a swollen segment which secretes a ______that

____ when they are laid

La annulla

CLITELLUM

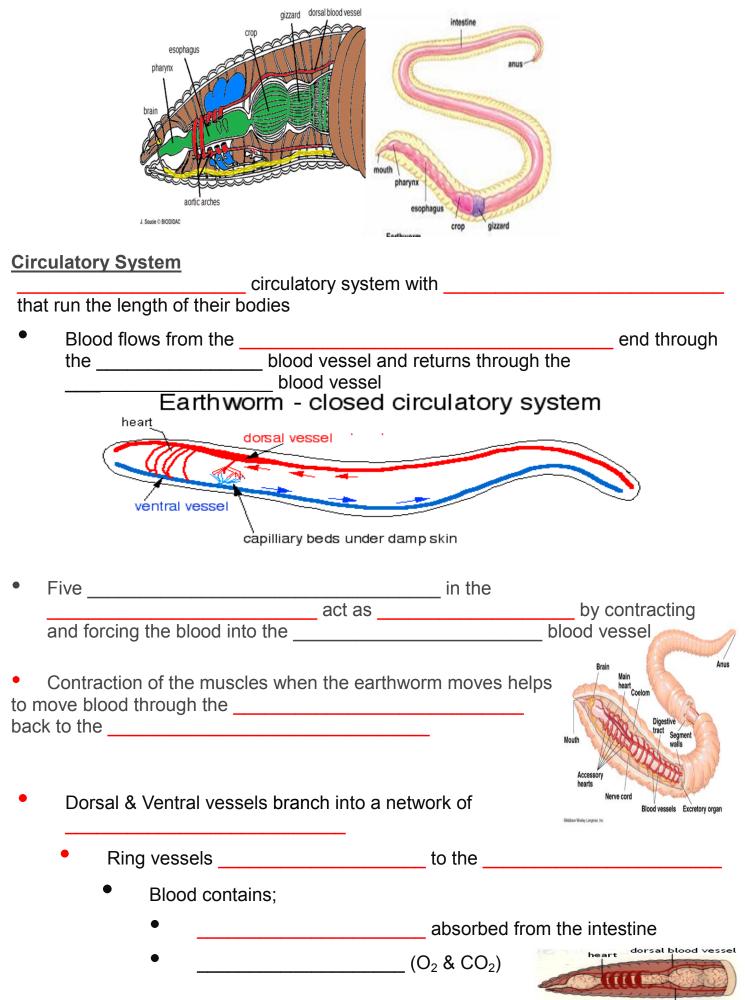


- Young develop ______ and leave it as fully formed worms
- NOTE: Earthworms are also able to removed from the ends of the body



Digestion

- Eat leaf fragments, seeds, small animals, and protists
- Food;
 - Enters the ________
 Gets pumped through the ________ by muscular contractions (________)
 Enters the ________ where it is ________
 Moves through the ________ where it gets ground up into tiny pieces
 Enters the _______ where _______ where _______ reprint gets ground up into tiny pieces
 Enters the ________ where _______ where _______ where _______ reprint gets ground up into tiny pieces
 Undigested food eliminated through the anus _______ Mouth ______ Esophagus Gizzard



ventral blood vessel

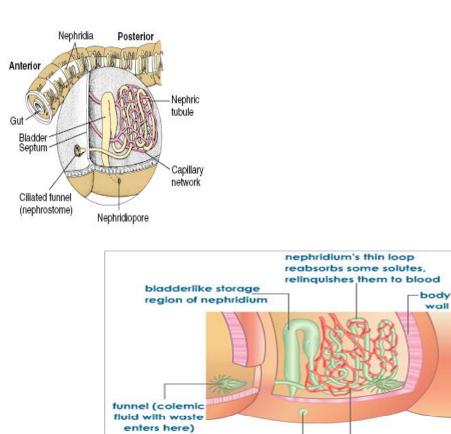
Respiration

No structure for respiration: gas exchange takes place

• Tiny vessels carry blood close to the skin's surface where into and out of the body

• The earthworm _	to allow diffusion of			
	across its skin			
 Have a 		to keep water in		
Excretion		outer skin)		
•	exits the body via the	CO ₂ Capillaries		
Cellular waste elir	minated by	02		

- Have a pair of nephridia (singular: nephridium) in each segment
- Nephridium consist of a ciliated ______ that moves waste from ______ through a long tube to the outside



external pore (fluid containing

wastes discharged here)

blood vessels

Nervous System

More					
Large		with many periphera	I ganglia		
	d runs the length o	of the worm, giving rise			
Have		that respond to	ner cor		
scular System (Mover	nent)				
Two major groups of n	nuscles				
•	·····				
<u>Circular muscles</u> run	run in circles the body of the worm		the worm		
 When they 		they make the			
Longitudinal muscle	<u>s</u> run from the	of the worm to	o the		
• When they	ti	hey make the			
	, the wit	th their	called		
is pulled up to their	and contrac	ct their <u>longitudinal muscle</u> (front) end	<u>es</u> so their body		
The above process ca	Longitudinal Circular d muscle muscle r	places along the body at t	the same time		
	0				

Unifying Characteristics of Annelida

- Have a _____(body c them to have true organ systems and muscular layers) (body cavity which allows •
- Posses ______ digestive & circulatory ______ as well as defined nervous and excretory systems •
- No developed ______ system as they exchange O_2 and CO_2 via moist epidermis (skin) •
- Are segmented into a sequence of compartments by •
- _____. Segments are marked by rings called annuli Reproduce sexually and some asexually by ______ and •
- Are _____ with cross fertilization •
- Are found in terrestrial, freshwater and marine environments •
- Can range in size from less than •

_____ (the seep tube

worm)