

Key

Name _____

Date _____

Zoology 1st Quarter Review

1. What are the kingdoms of classification? K. Monera (eubacteria + Archaeobacteria) & K. Protista , K. Plantae , K. Fungi , K. Animalia
2. What is zoology? the scientific study of the behavior, structure, physiology, classification, and distribution of animals.
3. What is the difference between basic and applied zoology? Applied zoology is when the study of animals is used some how to benefit humans.
4. What characteristics do all animals share? heterotrophic multicellular organism
5. What are some invertebrate examples? Porifera (sponge) , platyhelminthe (flat worm)
6. What do all invertebrates have in common? all animals without backbones
7. What are some chordate examples? Hagfish (jawless fish) ; snake , shark , human
8. What do all chordates have in common? All chordates have a notochord , nerve cord , pharyngeal slits , & post anal tail.
9. What separates vertebrates from chordates? Vertebrates have a ventral backbone that protects the nerve cord
10. What are some chordate examples? reptiles , amphibians , fish (bony) mammals
11. Why aren't bacteria and protozoa animals? Bacteria & protocor both are classified in their own Kingdoms , they are unicellular organisms
12. What is the difference between a marine and freshwater ecosystem? ↑ Salinity ↑ less than 1% Saline

13. How can you use animals to determine the health of an ecosystem?

Accurately biodiversity & collect
to see if "sensitive" meconants are present

15. Use the following to complete the chart. You may use a term more than once.

14. What chemical and physical properties go in to making a healthy ecosystem?

→ DO
→ pH
→ temp
→ turbidity

Abdomen	Exoskeleton
Anemone	Eye spots
Arachnid	Flatworm
Asymmetry	Gemmule
Bacteria	Hagfish
Beetle	Head
Bilateral symmetry	Human
Cephalization	Insect
Clam	Jawless fish
Closed circulatory system	Jellyfish
Complete gut	Multicellular
Coral	Nematocyst
Crustacean	Nematocyst
Diploblastic	Nerve net
Endoskeleton	Open circulatory system

Osculum

Ostia

Perch

Produces slime

Protozoa

Radial symmetry

Scales

Sea star

Sponge

Tentacles

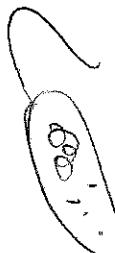
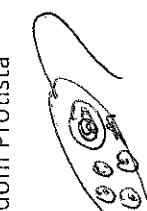
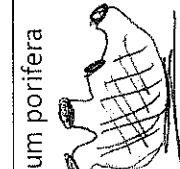
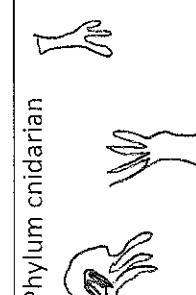
Thorax

Tissues

Unicellular

Veins and arteries

Zooanathallae

	Animal Examples	Group Characteristics
Kingdom monera	Bacteria  (not an animal)	unicellular, having a cell membrane & genetic material (prokaryotic cell)
Kingdom Protista	Euglena Amoeba  (not an animal)	unicellular, having organelles (eukaryotic cell)
Phylum porifera	Sponge  multicellular but no true tissues	assymetry osculum → ostia → no nervous system radial symmetry nerve net Body plan creates drag but draws in nutrients
Phylum cnidarian	Jellyfish Hydra Coral Anemone 	radial symmetry Cnidocilia Anemone
Phylum Platyhelminthes	Flatworm  Planarian	bilaterial symmetry Cephalization Eye spots No true gut / complete gut absent (diffusion of nutrients & waste) Pseudocoelomate

~~polyp~~
~~monostomous~~

Know what all look like → Be able to identify animal by name + structure

	Animal Examples	Group Characteristics
Phylum arthropoda	Insects Spiders Macro invertebrates	bilateral symmetry, body segments - head / thorax / abdomen - appendages - rapid movement
	Beetles	- Exoskeleton - protects but allows growth of (molting)
	Crabs Mussels Squid Octopus	- closed circulatory system + shell Giant Squid
Phylum chordata	Jawless Fish - lamprey	Hagfish - produces slime
	All vertebrates	
Subphylum vertebrata	Mammals	hair, milk, live birth
	Birds	scales, wings, lay eggs
	Reptiles	scales, lay eggs
	Amphibians	live on land + in water

} have a nerve cord

- * Be able to use a cladogram + dichotomous key
- * Give examples of symbiotic relationships among animals or animals/plant

* Ocean + freshwater zones

* coelom vs. pseudocoelom