Classification and Taxonomy

Name: Due:



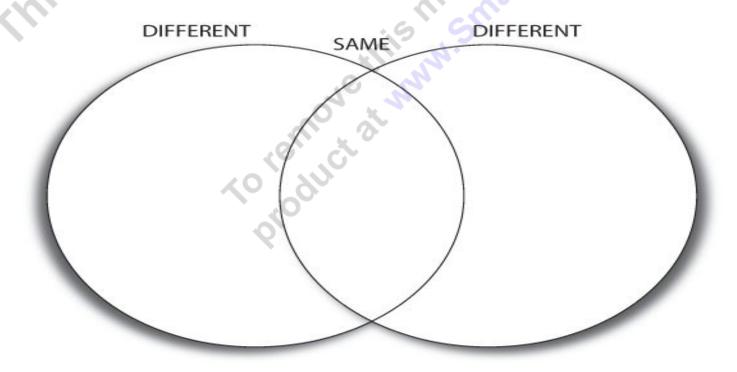
What can be misleading about the common name of the organism on the left? Why do we use the science of naming and classification over common names?

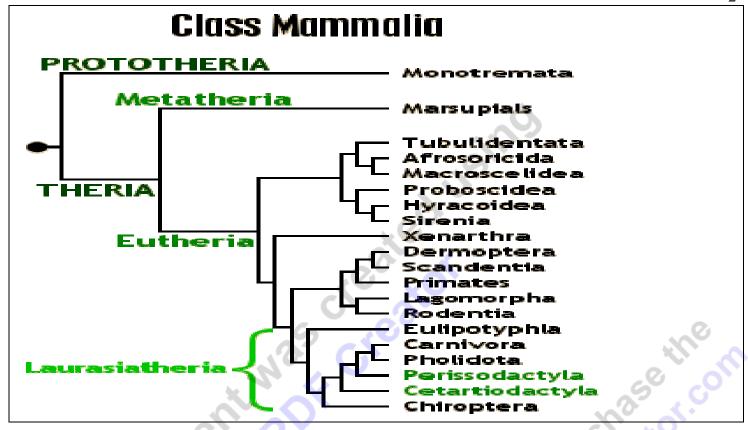
How are these species the same and different? Use the Venn diagram below. You may

need to do this question last.





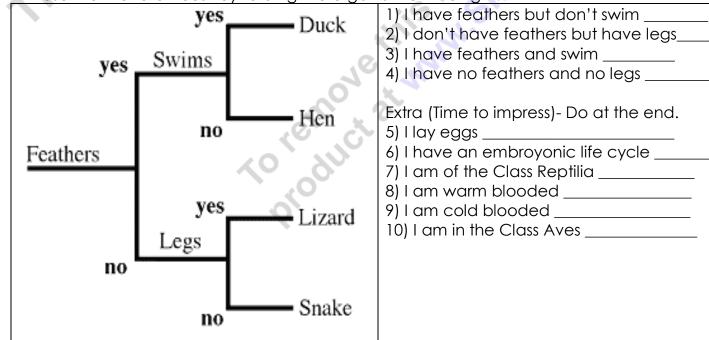




Please answer these questions based on the Phylogenic tree above.

- 1.) Lagomorpha (rabbits) are closely related to ______
- 2.) Which two orders of mammals are not Eutherian Mammals
- 3.) Carnivora and ______ share a common ancestor.
- 4.) Which Eutherian mammal doesn't have a lot of recent ancestors?______
- 5.) The most difficult question. Color code (colored pencils or crayon used lightly) the above phylogenetic tree into <u>clades</u>. (17 ish number of glades)

Use the Dichotomous key to ding the organism on the right.



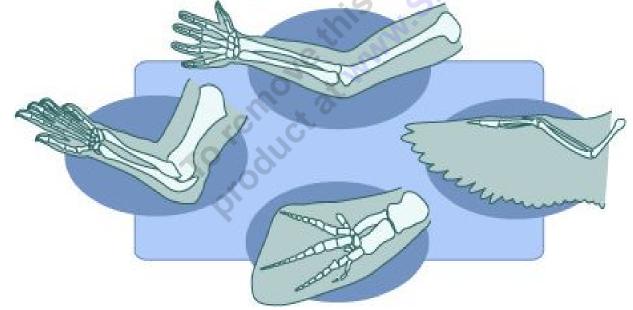
Please describe which symbols below are more closely related by placing each one into one of the four category lines. Cross off each one after you place it. Provide a rationale for each category below.

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placed them together in			
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Please use the picture below to relate these four different species. How are they similar and different?

Homologous Tetrapod Limbs



Please name the **Domains** of life based on the pictures below. Archaea, Bacteria, Eukarya

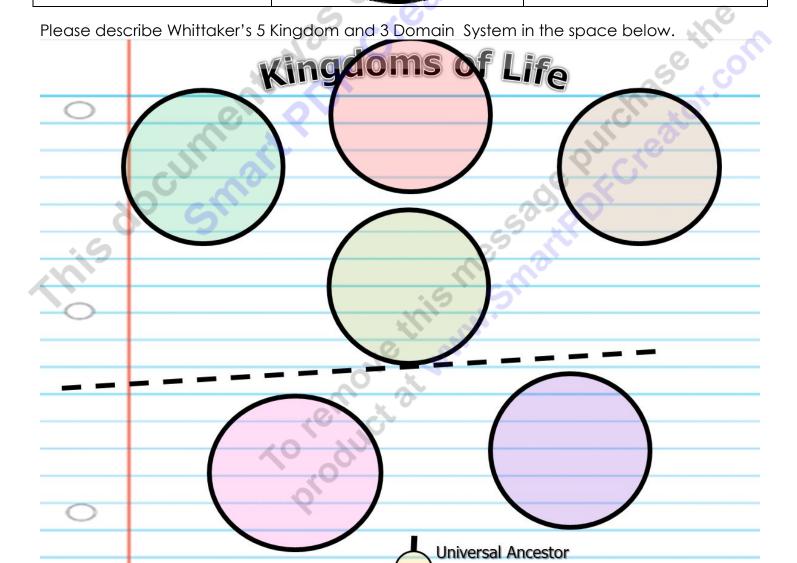
No Nucleus
Cell wall has
peptidoglycan.



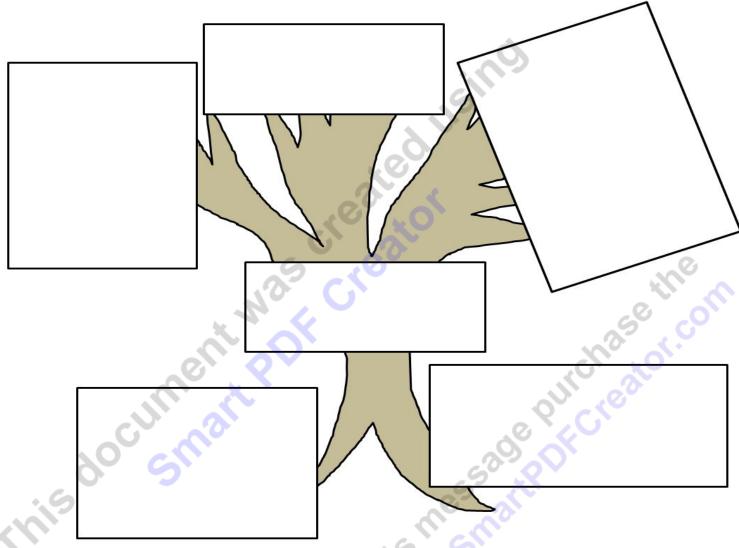
Cells that have a Nucleus.

No Nucleus.
Lives in Extreme chemicals and temps. No peptidoglycan in cell Wall

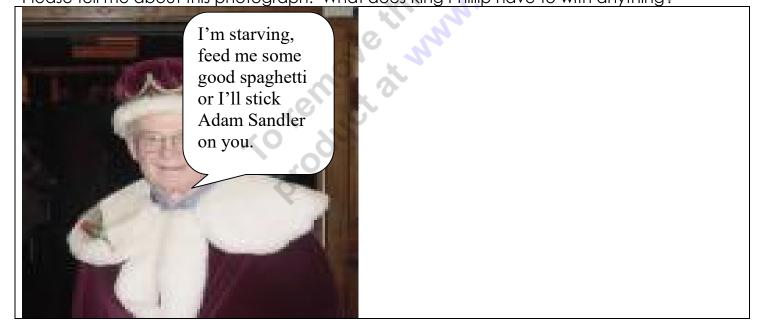
Can you tell me the type?



Use the tree on the previous page to assist you here. Use the words prokaryotic, eukaryotic, unicellular, multicellular, autotrophic, heterotrophic (eats food, absorbs food), cell wall, no cell wall, Cell wall made of chitin as you label the Domains and Kingdoms.

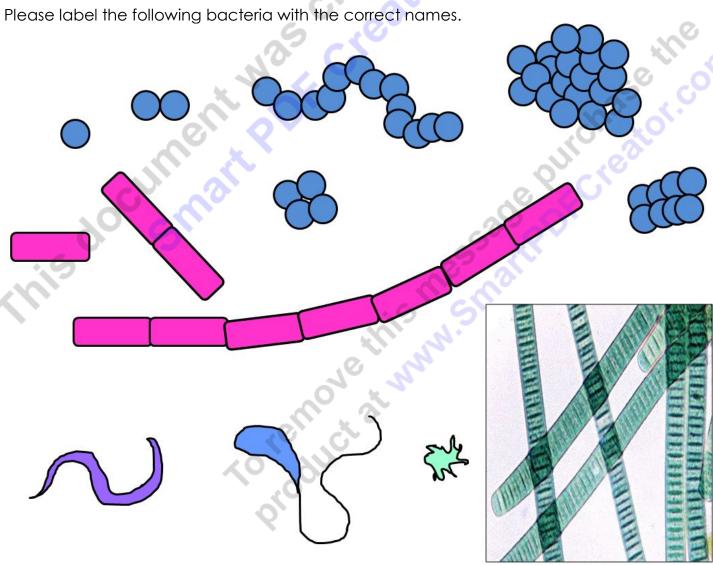


Please tell me about this photograph. What does King Phillip have to with anything?

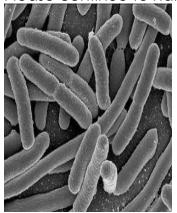


What is the full science name for humans such as Adam Sandler?





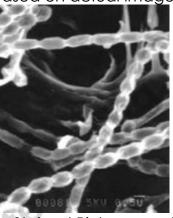
Please continue to name the bacteria below based on actual images.



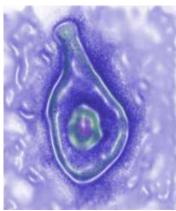




(Photosynthetic)



Stained Pink



(Jagged and Random)



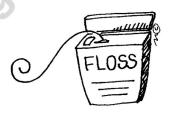
What are some ways you can fight bacteria and prevent food borne illnesses? Can you name some food borne illnesses?

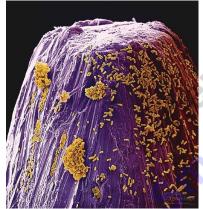
What should you do if you cut yourself to protect yourself from bacterial infection?



What's happening in this mouth? Describe some methods to help maintain good dental hygiene. What should you avoid?



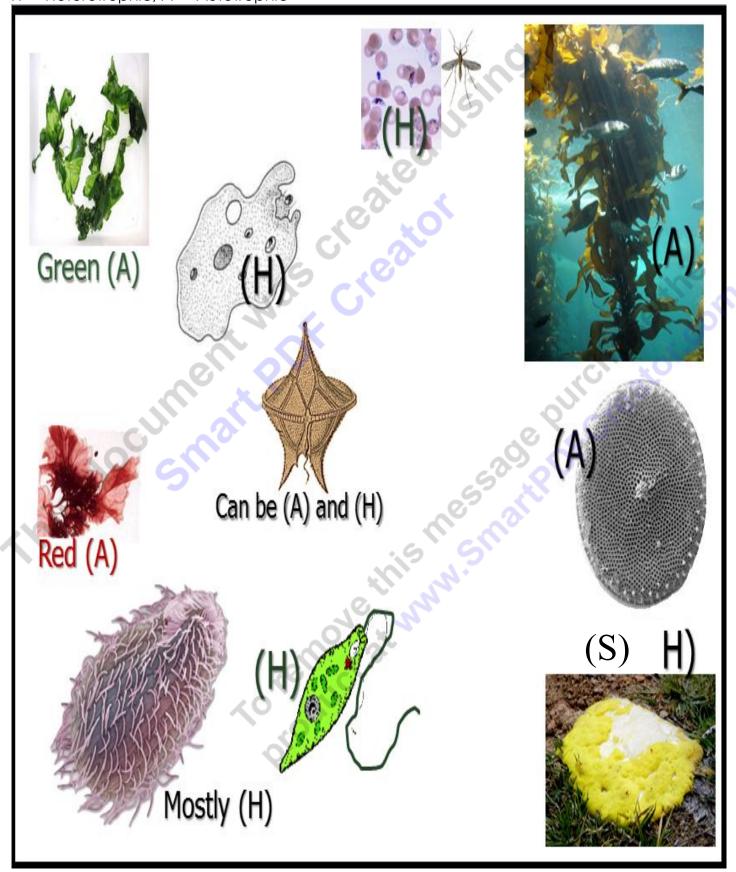


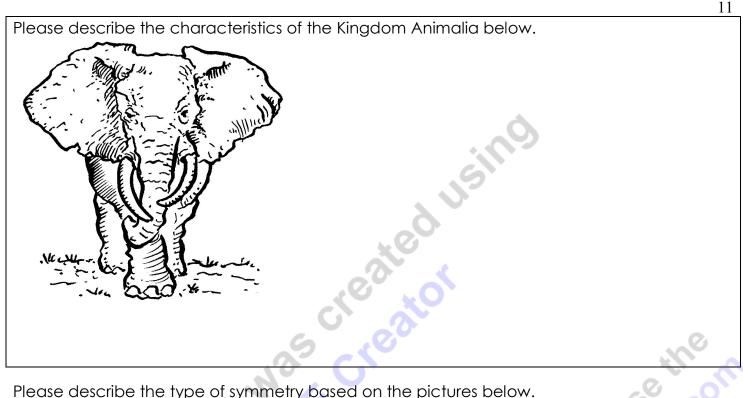


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planet. Please tell me why this is possible in the space below using the pictures to describe							
size and abundance, and the boxes to show bacterial reproduction.							
planet. Please tell me why this is possible in the space below using the pictures to describe size and abundance, and the boxes to show bacterial reproduction.							
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Please show anim	ation of bacteria reproducir	g in the box	es below. What	is the process
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What is the differe	ence between sexual and as	exual reproc	duction?	
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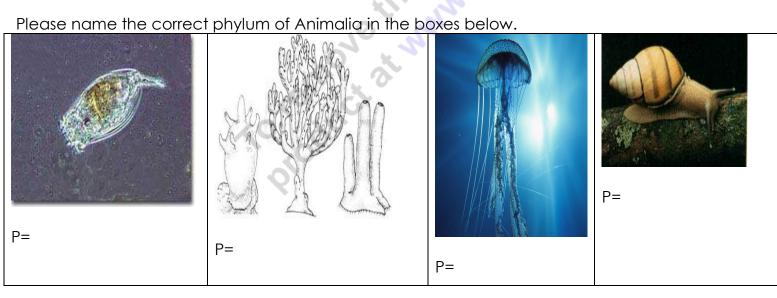
Name the Protists below and provide some information about each one. Visit the Mascot projects or listen to the lyrics in the songs for assistance. You can always research. H = Heterotrophic, A = Autotrophic

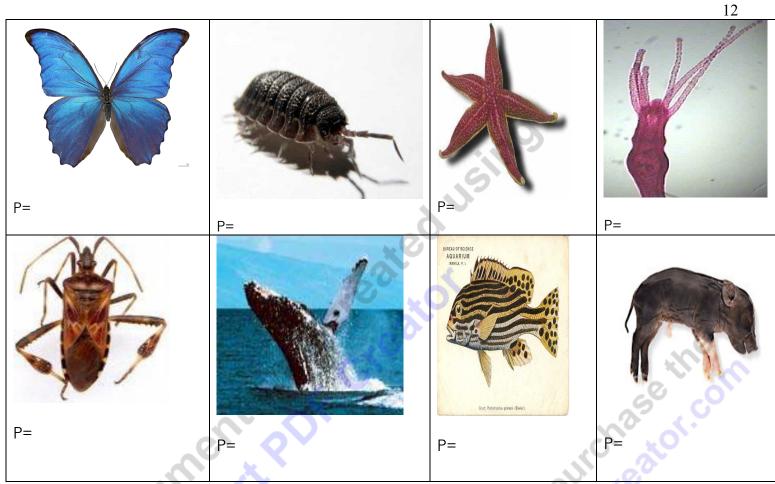


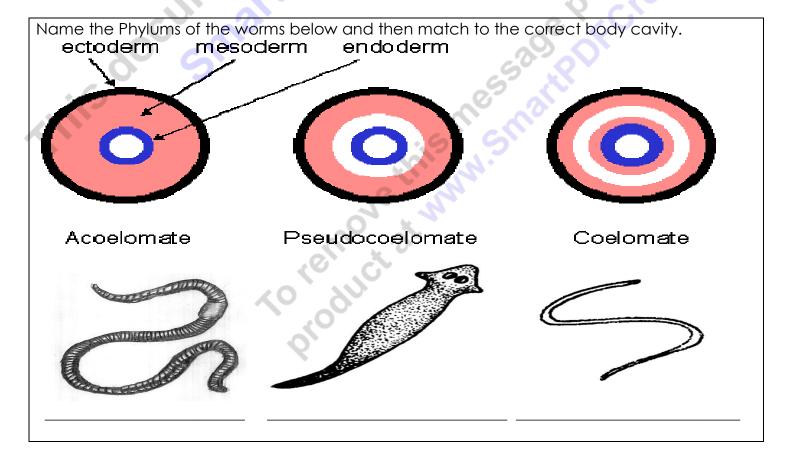


Please describe the type of symmetry based on the pictures below.









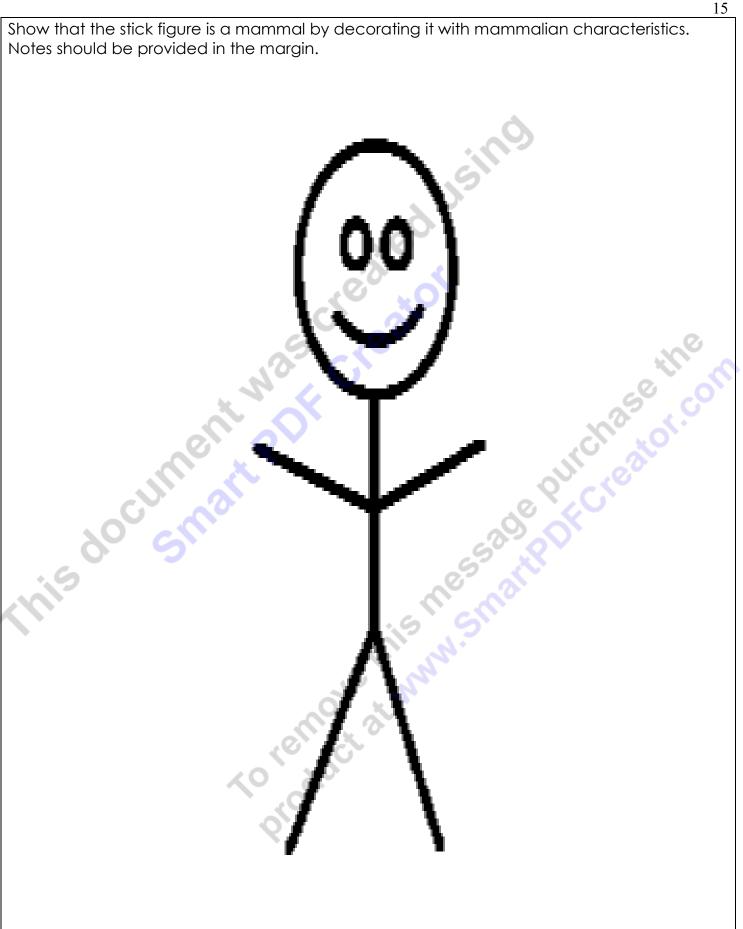
Name some of the classes representing the chordate phylum below



Please describe the classes of Arthropoda based on the pictures below. Why? Remove this miles

Kingdom Animal Phylum Quiz 1-33 (3 points each with bonus) 1 owl

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P C	P	P	Р	Р		
С				С		
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Name some of the orders of mammals below. If you want to mention subclass – Awesome!



Please visit four kingdom animalia posters are record important information. Space for the name or a visual / sketch is provided.



What are the three roles of fun	gi? Explain each one.	
Role	Role	Role
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	600	
What are some of the positives	and negatives of Fungi?	
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What Division of fungi is shown	holow? Plages name the part	s and then describe the
dangers of eating this magic mushroom reproduction.		ushroom) Also try and mention
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What type of fungi is shown to the right? How could this have been prevented?

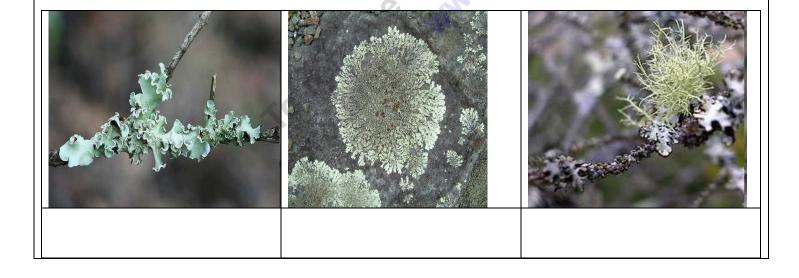


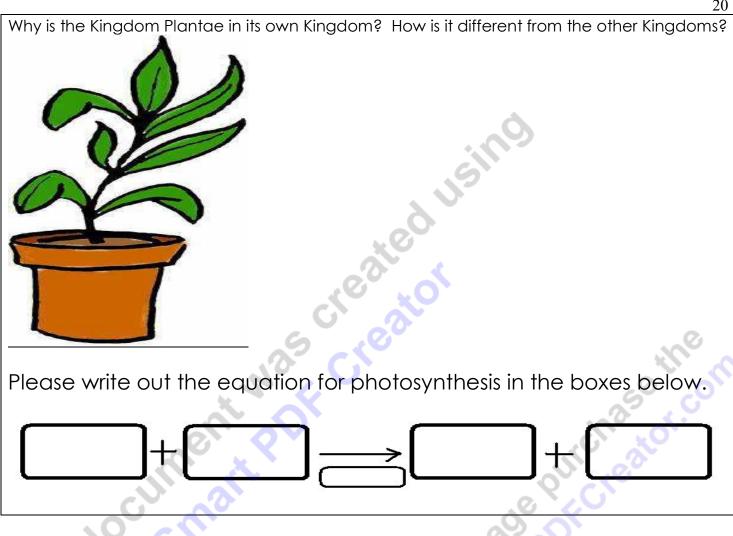
rchase the

Please describe at least three Divisions of Fungi in the space below. Provide a picture and

some supportive text in the boxes below.

What is a lichen? How does a lichen represent a mutualism between two species? Can you name the types of lichen below?

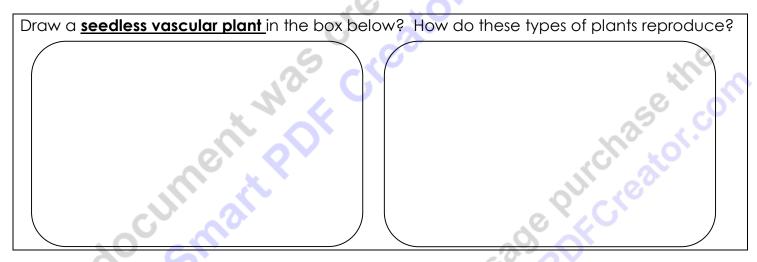


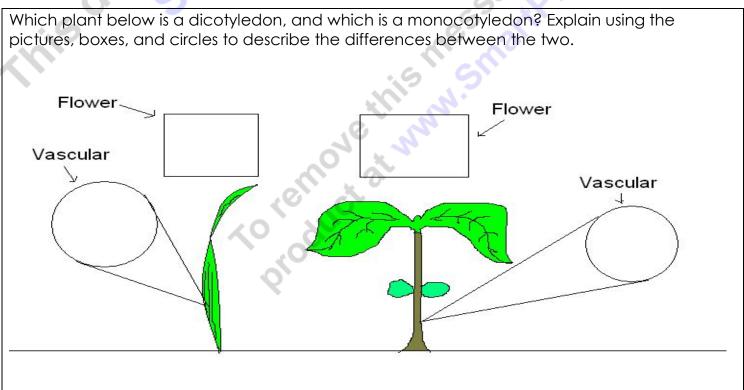


Why do most bryophytes live close to the ground and in moist environments?	Please identify, and then label the bryophyte below?
	luisun.
- 10 10 10 10 10 10 10 10 10 10 10 10 10	
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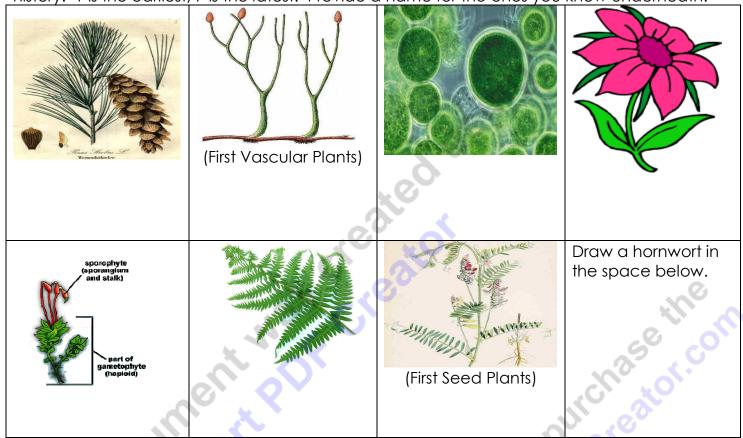
Please correctly name the type of non-vascular plant in the boxes under the picture.



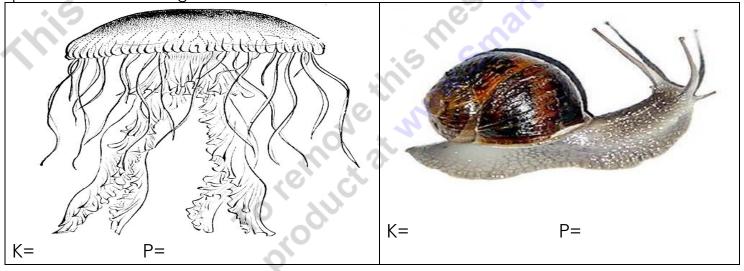




Please place the following pictures in the correct order 1-7 according to their evolutionary history. 1 is the earliest, 7 is the latest. Provide a name for the ones you know underneath.

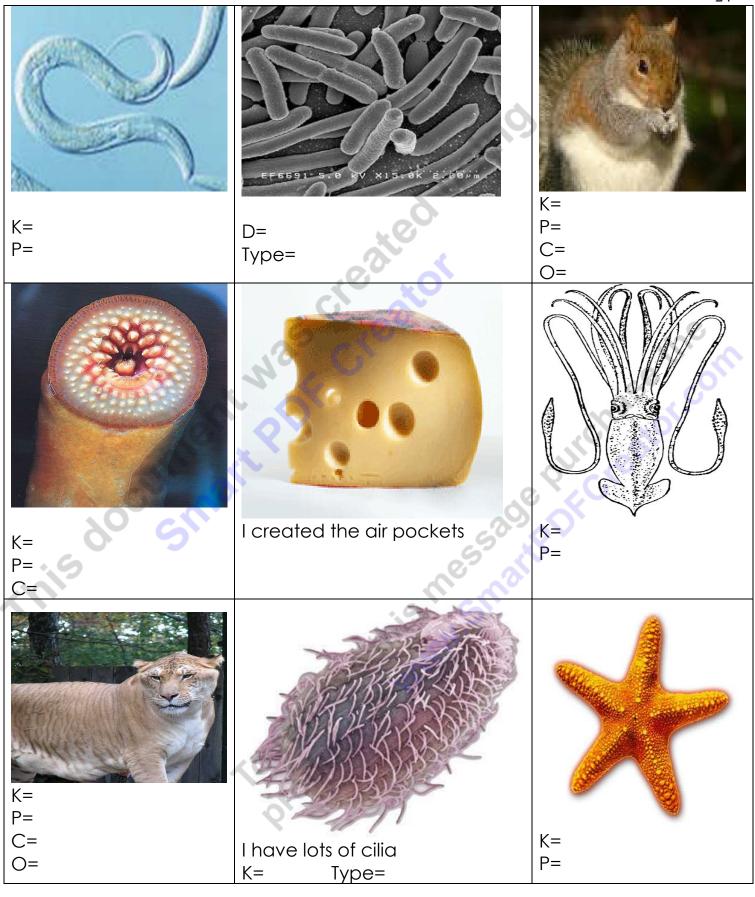


Final Recitation - Please label the following...The more you know the better. At minimum, please record the Kingdom.

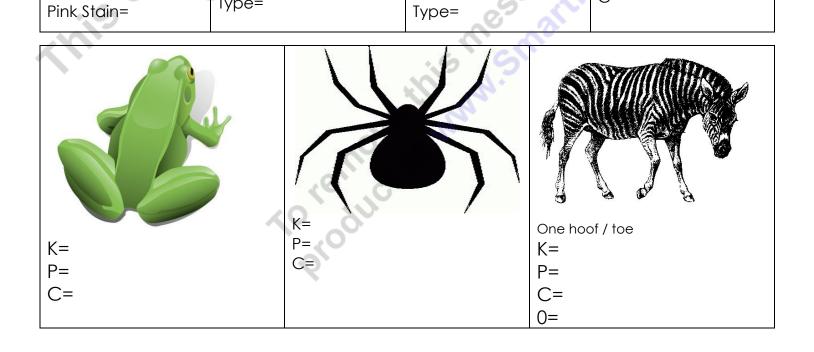












Type=

Please name the animal below.

Common Name:



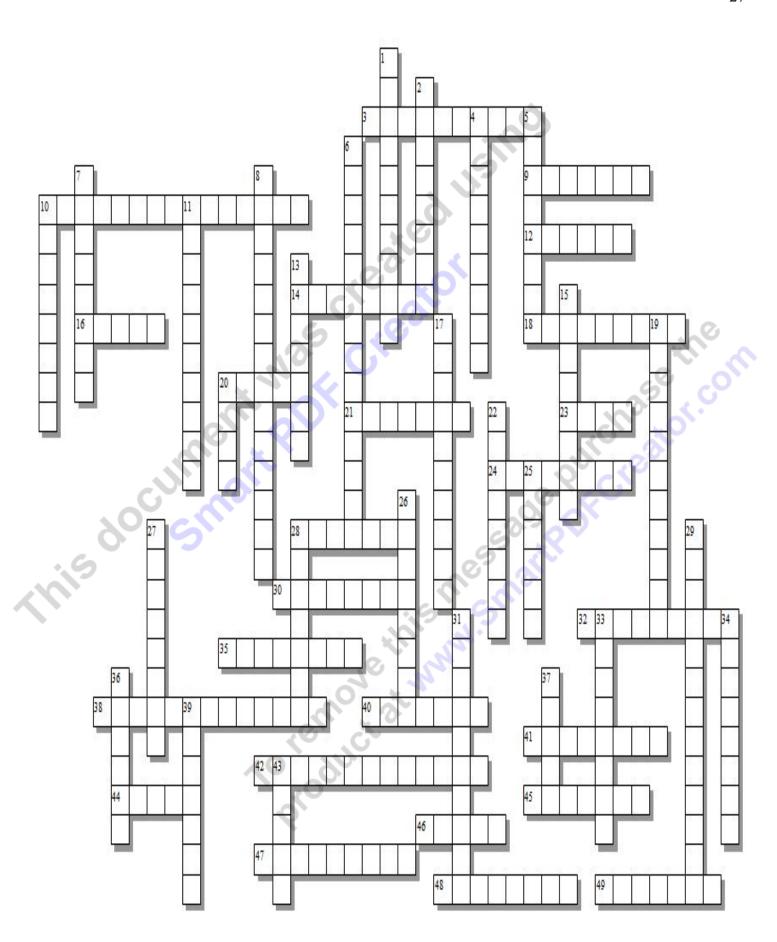
Kingdom_____Phylum____Class_____Subclass_____Family______
Genus_____Species_____

Please name the animal below.





Kingdom_____ Phylum____ Class_____ Subclass____ Order____ Family_____



Across:

- 3 This is the division of fungi that mold belongs to?
- 9 Prokaryotic cells do not have a membrane bound _____ containing the DNA
- 10 Name the phylum The flatworms
- 12 Algae and fungus growing together in a symbiotic relationship.
- 14 This animal phylum has asymmetrical symmetry. (Ex. Sea Sponge)
- 16 6CO2 + 6H2O + _ _ _ energy = C6H12O6 + 6O2
- 18 This class of Arthropoda has 8 legs, no antennae or wings, two body parts, most live on land.
- 20 This Kingdom is consists of multi-cellular (many celled) organisms that ingests food by absorption and reproduces using spores.
- 21 This is a Superclass of jawless of fish.
- 23 This class of chordata lays eggs, can fly, and has a wishbone.
- 24 This class of chordata lives a double life on land and in the water. No scales on skin.
- 28 This Kingdom of Life is multi-cellular and makes its own food
- 30 This animal phylum has soft bodies and sometimes shells. (Ex. Snail)
- 32 Which of the three roles of fungi are missing? Mutualistic Symbiont, _____
- , Saprobic 35 - Which Kingdom of Life is Missing? Archaea, Bacteria, _____, Animalia, Plantae, Fungi
- 38 Mushrooms belong to this division of fungi?
- 40 This Kingdom has cells walls and make their own food (photosynthesis), and lack the power of locomotion.
- 41 This animal phylum has stinging cells (Ex. Jellyfish)
- 42 This animal phylum has spiny skin (Ex. Starfish)
- 44 These are the most primitive members of

Down:

- 1 Division of non-vascular plants that have no roots, stems, or leaves and transport nutrients using diffusion. B______
- 2 This animal phylum has tiny animals with wheels made of cilia that help it feed. (Can be found in sludge at waste water plants)
- 4 This class of Arthropoda has a head and abdomen, Some have many legs (8+) with many jobs, most are aquatic
- 5 Name the phylum Segmented worms
- 6 This is a very broad term which simply means putting things into groups.
- 7 Humans belong to this Class.
- 8 This term describes the process where plants make sugar from sunlight. Light energy is turned into chemical energy (sugars carbon based).
- 10 This Kingdom of Life can be single and multi-celled. Eu_____ (The Eu is outdated but didn't want change the entire puzzle so I'm leaving it in)
- 11 Which sub-class of mammals is missing?-Eutheria: Placental Mammals.(Marsupials). -Prototheria / Monotremes(Egg laying mammals).
- 13 This is a group of organisms with similar characteristics, produce fertile offspring, and has similar DNA.
- 15 This class of chordata has hair, moves, mammary glands, four chambered heart, and much more.
- 17 This animal phylum has segmented joints, exoskeleton, and bilateral symmetry 19 This type of key is a tool that allows the user to determine the identity of items in the natural world.
- 20 One characteristic of mammals are that they have a _ _ _ chambered heart.
- 22 A slender threadlike structure, esp. a microscopic whiplike appendage that enables many protozoa, bacteria, spermatozoa, etc., to swim.
- 25 Which Taxonomic rank is missing?

Plant kingdom. They can be tound as
bacteria, protists, and plants.
45 - Binary: The process by
which a bacterium multiplies by splitting in
two.
46 - Flowerless and seedless vascular plant,
having true roots from a rhizome, and fronds
that uncurl upwards; and reproduces with
bisexual spores.
47 - Fungi and plants are divided into
instead of phylums
48 - Mean giving names for things. The
Science of Classification
49 - Type of reproduction where one
individual produces offspring that are
genetically identical to itself.
Reproduction

2
Domain, Kingdom,, Class, Order,
Family, Genus, species.
26 - Name the phylum - Roundworms
27 - This class of chordata has scales and
lays eggs.
28 - An organism with a Eukaryotic single
cell, or colonies. Lacking tissues and eats,
makes, or decomposes for food.
29 - This is a Superclass of fish with jaws
31 - Which domain of life is missing?
Archaeabacteria,,
Eukarya
33 - This Kingdom of Life is mult-cellular and
eats its food
34 - This phylum of animalia has a backbone
or notocord.
36 - Which type of animal symmetry is
missing? Asymmetrical,,
Bilateral
37 This Kingdom of Life is multi-cellular and

- absorbs its food
- 39 This class of Arthropoda has six legs, three body parts, compound eyes, two antennae, and can fly.
- 43 Many hairlike projections from the surface of a cell that provides locomotion.

Possible Answers:

Agnatha, Algae, Amphibia, Animalia, Annelida, Arachnida, Arthropoda, Asexual, Aves, Basidiomycota, Bryophytes, Chordata, Cilia, Classification, Cnidaria, Crustacea, Dichotomous, Divisions, Echinodermata, Eubacteria, Ferns, Fission, Flagella, Four, Fungi, Fungi, Gnathostomata, Insecta, Lichen, Light, Mammalia, Mammalia, Metatheria, Mollusca, Nematoda, Nucleus, Parasitic, Photosynthesis, Phylum, Plantae, Plantae, Platyhelminthes, Porifera, Protist, Protista, Protista, Radial, Reptilia, Rotifera, Species, Taxonomy, Zygomycota

TAXONOMY AND CLASSIFICATION Name:

Please fill out as much information in the boxes below as you can as far "King Phillip" is concerned. Kingdom for Protista, Plantae, and Fungi, Kingdom and Phylum for animals, Class for Chordata, and Arthropoda, and Sub Class and Order for Mammalia. * = 1 point bonus

1) K=	P=		C=	
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24) K=	P=	C=	SC=	O=

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25) K=	Тур	e=				
26) K=	P=					
27) K=	P=					
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47) K=	P=	900	C=			
48) K=	Тур	e				
49) K=	P=	C=		SC=	O=	
50) K=		P=				
Bonus #51	Bonus 7		Bonus	#53		
Bonus #54	Bonus :	#55				

