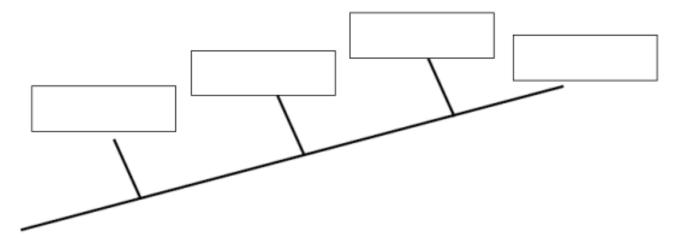
Name:	Period:		
Characteristics of Life a	and Classification Study Guide		
Directions: Identify which characteristic of liv below. Some may be used more than once!	ring things is being described in each of the statements		
A. All living things have organization.	D. All living things respond to stimuli.		
B. All living things obtain and use energy.	E. All living things maintain an internal balance (homeostasis).		
C. All living things reproduce.	F. All living things grow and develop		
1. An amoeba is a unicellular organism.			
2. When a human steps out into the cold temperature at 98.6 degrees Fahrenheit.	air, the body begins to shiver in order to keep its		
3. Green plants produce their own food t	chrough the process of photosynthesis.		
4. An adult hydra is producing its offspri	ing through budding.		
5. The roots of a plant grow towards a so	ource of ground water.		
6. Over three years, Tim's height has inc	reased from 5'4" to 5'11".		
8. A baby songbird hatches from its egg v	with both parent songbirds watching.		
9. A tulip opens up in the morning at sur	nrise and closes up in the evening at sunset.		
10. Identical twins have 99.999% of the s	same genes.		
11. A caterpillar hibernates in a cocoon, a	and emerges as a butterfly.		
13. A beaver is an organism composed of	f many different types of cells.		
14. A sea worm drops its tail and the tail	becomes a new worm.		
15. As a sea worm is placed in fresh wat conserve energy.	ter, the pulse slows down in order for the worm to		
16. List the three domains of life:			

•
•
8. Name two characteristics that are used to place an organism in the domain Archaea:
•
o. Name two characteristics that can be used to distinguish the Animalia kingdom from the kingdom Plantae
•
1. Put the classification taxa in the correct order from largest (most kinds of organisms) to smallest (one kind of organism)
CLASS, DOMAIN, GENUS, FAMILY, KINGDOM, ORDER, PHYLUM, SPECIES
<u> </u>
·
2 Members of the same can mate and produce fertile offspring.
3. A group of related species are in the same
4. A group of related families are in the same
25. A group of related phyla are in the same

17. List the six kingdoms of life:

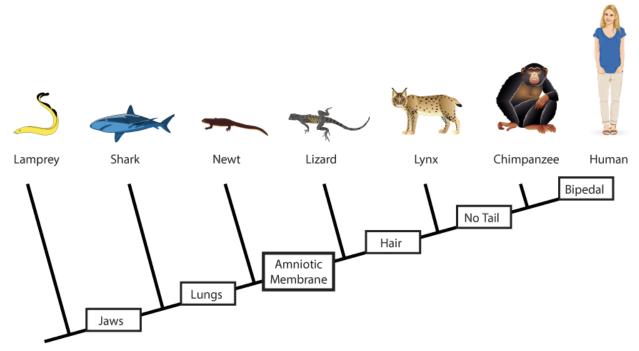
26. Write your first and last name						
27. If your name were a scientific name, which part would be the genus?						
28. Which part would be the species identifier?						
Examine the table showing the classification of four organisms. Then answer questions #29-33.						
Taxon	House Cat	Mountain Lion	Domestic Dog	Human		
Kingdom	Animalia	Animalia	Animalia	Animalia		
Phylum	Chordata	Chordata	Chordata	Chordata		
Class	Mammalia	Mammalia	Mammalia	Mammalia		
Order	Carnivora	Carnivora	Carnivora	Primates		
Family	Felidae	Felidae	Canidae	Hominidae		
Genus	Felis	Felis	Canis	Ното		
Species	domesticus	concolor	familiaris	sapiens		
31. Which taxon includes organisms that have hair or fur and produce milk?						
35. Fill in the following table based on the diagram above. Mark an "X" if an organism has the trait.						
	Cells	Legs	6 legs	wings		
Worm						
Spider						
Carpenter ant (black)						
Fly						
	1	1		1		

36. Add each of these organisms to the cladogram below: worm, spider, ant, fly



- 37. Annotate the cladogram above by **adding traits** that make the organisms different from each other.
- 38. According to your cladogram, which two species are more closely related: worms and spiders or worms and ants? **How do you know?**

Use the diagram below to answer questions 39 & 40.



- 39. What characteristic separates a chimpanzee from a human?
- 40. What characteristics do lizards and lynxes have in common?

Use the dichotomous key below to identify the monster organisms on the last page. Does it have wheels? 1. A.) Yes -----go to 2 B.) No-----go to 4 Does it have 4 wheels? 2. A.) Yes-----Stanley raye B.) No-----go to 3 Does it have 2 arms? 3. Yes-----Agnes stover A.) No------Maud podvin B.) Does it have feet with toes? 4. A.) Yes-----go to 5 B.) No-----go to 6 Does it have ears? 5. A.) Yes-----Elmer nugent B.) No-----Bob richey Does it have tentacles like an octopus? 6. Yes-----Ruth ormond A.) B.) No-----go to 7 Does it have webbed feet like a duck? 7. Yes-----go to 8 A.) B.) No-----go to 9 8. Does it have feathers on its butt? Yes-----Myrtle lethlean A.) B.) No------Walter allen Does it have teeth? 9.

Yes-----Elton ashmun

No-----Nora outfleet

A.)

B.)

Find each of the following creatures' name using the dichotomous key descriptions on the previous page and write their correct scientific name.

