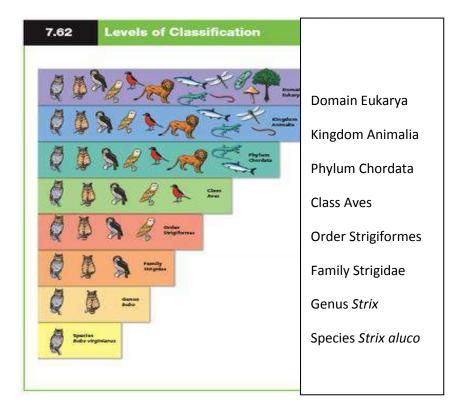
## Classification Study Guide: Chapter 9

1.	What term describes the division of organisms into groups based on certain characteristics?
2.	Scientists classify organisms based on what?
3.	What term describes the science of describing, naming, and classifying organisms?
4.	Which scientist is known for founding the science of taxonomy?
5.	What system do scientists use to classify organisms? Hint: The system is based on shared characteristics.
6.	Name the seven levels of classification in order from most general to most specific
7.	What two parts of the seven level classification system does the scientific name for an organism come from?
8.	What do scientists use to refer to organisms because common names can create confusion?
9.	When the text in a scientific name is not italicized, then it must be
10.	The scientific name for a mountain lion is Felis concolor. What is its species name?
11.	Write this scientific name correctly: canis lupus
12.	What can you find out by working through a dichotomous key in order?
13.	What does a dichotomous key consist of?
14.	For hundreds of years, people thought all living things belonged to what two groups?
15.	What happened that made it necessary for scientists to add new kingdoms?
16.	How many kingdoms are recognized today?
17.	What kingdom has members that can survive in the harshest environments?
18.	What kingdom has organisms that must eat in order to survive?
19.	What kingdom includes pine trees, ferns, and mosses?
20.	What kingdom do mushrooms belong to?
21.	Which kingdom has members that are eukaryotes yet they are not plants, animals, or fungi?
22.	What kingdom does slime mold belong to?
	What kingdom has a member that causes pneumonia?

24.	In c	rder for photosynthesis to occur, what must a plant be exposed to ?
25.	Wh	at do bacteria and fungi do that are beneficial to the Kingdom Animalia?
26.	Wh	at characteristics do a tiger, coyote, and bat have in common?
27.	Giv	e an example of a simple animal
28.	Wh	y do scientists classify a sponge as a simple animal and not a plant?
	-	LANCELET LAMPREY GROUPER SALAMANDER TURTLE WOLF HAIR  AMNIOTIC EGGS  FOUR LEGGED LOCOMOTION  JAM BONES  VERTEBRAL COLUMN
29.		
	A.	Which organism is the closest relative to the common ancestor of all the animals?
	В.	Which organism shares the most traits with wolves?
	C.	Do both lampreys and turtles have amniotic eggs? Explain your answer
	D.	What characteristic do salamanders have that groupers do not?
30.	Wł	at is an independent variable?
31.	Wh	at is a dependent variable?
32.	Wh	at is a control?
33.	A so	cientist wants to test if fertilizer will make a rose plant produce more roses. He takes two rose plants. He
	give	es one rose plant the fertilizer while the other rose plant does not get any fertilizer. The plants are given the
	san	e amount of water daily. His experiment lasts for two months and he records the number of roses produced
	by e	each plant
	A.	What is the independent variable?
	В.	What is the dependent variable?
	C.	What is the control?
	D.	List a controlled variable.



- 34. A. Which category shown contains the greatest number of species?\_\_\_\_\_\_
  - B. Do all the organisms that belong to the Class Aves also belong to the Phylum Chordata?\_\_\_\_\_
  - C. Do all the organisms that belong to the Order Strigiformes also belong to the Genus Strix?\_\_\_\_\_