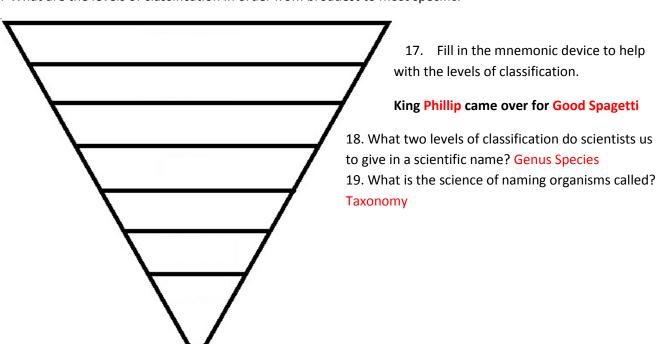
Characteristics and Classification of Life Study Guide

- 1. What are the 5 characteristics of all living things?
 - I. Living things are made of cells
 - II. Livings things can respond to stimuli
 - III. Living things can obtain and use energy
 - IV. Living things reproduce
 - V. Living things grow and develop
- 2. All living things are made up of cells.
- 3. A change in an organism's surroundings that causes it to react is called a stimulus
- 4. The animal's reaction to a stimulus is called a response
- 5. Ability to make offspring is called reproduction
- 6. Reproduction with one parent is asexual
 - I. Offspring is identical to parent
- 7. Reproduction with two parents is sexual
 - . Offspring are different and a combintation from both parents
- 8. Organisms, such as plants, that make their own food are autotrophs
- 9. Organisms, such as animals, that cannot make their own food are heterotrophs
- 10. Process of becoming larger is growth
- 11. Process of becoming more complex is development
- 12. List 3 examples of a stimulus and a response

Stimulus		Response		
l.		>		
II.		>		
III.		>>		

- 13. Give 3 examples of heterotrophs: lions, birds, fish
- 14. Give 3 examples of autotrophs: sunflower, pine tree, grass
- 15. classification is grouping things based on common traits.
- 16. What are the levels of classification in order from broadest to most specific.



- 20. What are the 5 kingdoms?
 - I. Monera
 - II. Protist
 - III. Fungi
 - IV. Animals
 - V. Plants
- 21. What does Binomial Nomenclature mean? 2 name naming system
- 22. Who is the "Father of Taxonmy" Carolus Linnaeus
- 23. What do the trees Tsuga Canadensis and Tsuga caroliniana have in common? Same genus
- 24. What 3 things do all living things need to survive? Water, Food, Shelter
- 25. What is an example of each of the 5 kingdoms below:

I. Monera: bacteriaII. Protist: algaeIII. Fungi: mold

IV. Animals: tigers, chickens, turtles, grasshopper

V. Plants: daisy, oak tree, rose

- 26. In the scientific name Limulus polyphemus, what is the genus Limulus species polyphemus
- 27. Organisms that share the most similarities are found in which level of classification? species
- 28. A tadpole changing to a frog is an example of what characteristics of life? Growth and Development
- 29. A squirrel running up a tree when you walk towards it illustrates what characteristics of life? Response to Stimulus
- 30. If 2 organisms belong in the same order, then they must also belong in the same: Kingdom, Phylum, Class (Everything above that level)
- 31. If 2 organisms belong in the same family, then they must also belong in the same: Kingdom, Phylum, Class, Order
- 32. If 2 organisms belong in the same phylum, then they must also belong in the same: Kingdom
- 33. If 2 organisms belong in the same class, then they must also belong in the same: Kingdom, Phylum
- 34. Organisms that share the least similarities are found in which level of classification? Kingdom
- 35. What level of classification has the most organisms? Kingdom
- 36. What level of classification has the least amount of organisms? Species
- 37. Using the chart below, give the scientific name for a giraffe. Giraffa camelopardalis

Kingdom: Animalia Phylum: Chordata Class: Mammalia Order: Artiodactyla Family: Giraffidae Genus: Giraffa

Species: camelopardalis

