Name	
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Categories Of Biological Classification (p. 300 – 304)

I. Taxonomy

1. Define the term taxonomy.

Taxonomy - Science of naming + classifying organisms

2. Circle the letter of each sentence that is true about early efforts at naming organisms.

a. Names were usually in English.

6. Names often described detailed physical characteristics of a species.

C. Names could be very long. (Polynomials -> 12 as more Letin words)

d. It was difficult to standardize the names.

3. Who developed the modern classification system of organisms?

Carlons Linnaeus Swedish Botanist

4. Define the term binomial nomenclature.

Binomial Nomenclature - two-word naming system of organisms (developed by Linnaeus)

5. Circle the letter of each sentence that is true about binomial nomenclature.

a. The system is no longer used today.

(b) Each species is assigned a two-part scientific name.

c. The scientific name is always written in italics.

d. The second part of the scientific name is capitalized.

6. Define the term genus.

Genus - taxonomic category containing similar species

7. Identify the genus and species names of a grizzly bear, Ursus arctos.

Genus = Ursus Species = arctos

8. Identify the genus and species names of a red maple, Acer rubrum.

Genus = Acer Species = Nubrum

9. Write your name as a scientific name using binomial nomenclature. (Be creative!)





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II. Classifying Organisms

1. Define the term domain.

Domain - texonomic grouping of similar kingdoms

2. List the three domains and identify the types of organisms assigned to each domain.

(p.302)

1	Archaea		Bacteria	(Methanogens,	Holophiles)
2.	Enbacteria	:	Bacteria	(Streptococcus	Escherichia

3. Enkarya: Protists tungi Plantee Animalia

3. List the remaining seven taxonomic levels (from general to specific).

Kingdoms	contains phyla
Phylum	contains classes
Class	contains orders
Order	contains families
Family	contains genera
Genns	contains species
Species	individual species
N 1	

4. Taxonomically, classify a mountain lion. (We will do this in class.)



Animalia	Kings
Chordata	Play
Mammalia	Chess
Carnivora	On
Felidae	Fine
Felis	Green
Felix concolor	Satin