Class Notes	Name:					
Taxonomy	Period:					
(Naming and	Date:					
Grouping)	Notes:					
What is taxonomy ?	grouping and naming of organisms					
	o to understand the variety of life					
	 to avoid confusion of regional names 					
What was Carl	• developed the binomial nomenclature (2-part name), now called the					
Linnaeus	scientific name					
contribution to	 developed a 7-level (taxon) system of classification 					
classification?						
Place the <u>taxons</u> in	Domain 223 Ficture 18-5 Classification of Usius Acros Construction of Usius Acros Construction of Usius Acros Construction of Usius Acros Construction					
order from largest to	Kingdom 🧖 🕅 🍕 🐔 🐇					
smallest:	Phylum Reverse at the second s					
Dt.						
Pneumonic:						
(<u>D</u> readed <u>King Pninp</u>	Family Review Market Street St					
<u>Came Over F</u> or	Genus					
<u>Great spagnetti)</u>	ярестея исстания истористики и исстания и и исстания и и					
What are the 3	• Archaea - ancient prokarvotes					
Domains?	 Archaea - ancient prokaryotes Bastoria - prokaryotes 					
Domains:	 Dacteria - prokaryotes Fukarya - oukaryotes (includes plants, animals, funci) 					
	• Eukarya - eukaryotes (includes plants, anniais, lungi)					
How are taxonomic	Beginning with domain, each successive level of classification becomes					
groups organized?	more specific					
	• Organisms within the same group have more in common with one another					
	than those within the next largest group					
	o Members of a genus share more in common than members of a					
	family					
What are the 6	• Archaea					
Kingdoms?	Bacteria					
	Protista					
	• Plantae					
	• Fungi					
	• Animalia					
What is a	• a diagram that shows evolutionary relationships between organisms					
cladogram?	 Helps scientists understand how one lineage broke away from another in 					
	the course of evolution					
What is a	Classification used to identify unknown organisms					
<u>dichotomous key</u> ?	Based on visible similarities					
Summary:						

Here's a quick chart to distinguish some of the basic similarities and differences among the 6 kingdoms. Refer to Section 18-3 of the Biology text for more details.

Domain	[Bacteria]	[Archaea]	[Eukarya]			
Kingdom	Bacteria	Archaea	Protista	Fungi	Plantae	Animalia
Single-celled or multicellular?	single-celled	single-celled	mostly single-celled but can be multicellular	mostly multicellular but can be unicellular	multicellular	multicellular
Membrane bound nucleus? (prokaryotic or eukaryotic)	prokaryotic	prokaryotic	eukaryotic	eukaryotic	eukaryotic	eukaryotic
Nutrition (autotrophic or heterotropic)	either	either	either or both	external heterotroph	autotroph	heterotroph
Cell wall structure	peptidoglycan	<u>NOT</u> peptidoglycan	some have cellulose	chitin	cellulose	none
Repro- duction (asexual or sexual)	asexual	asexual	both	both	both	mostly sexual
Contain chloroplasts?	no	no	if autotrophic	no	yes	no