

Name James Rosso

Period 1

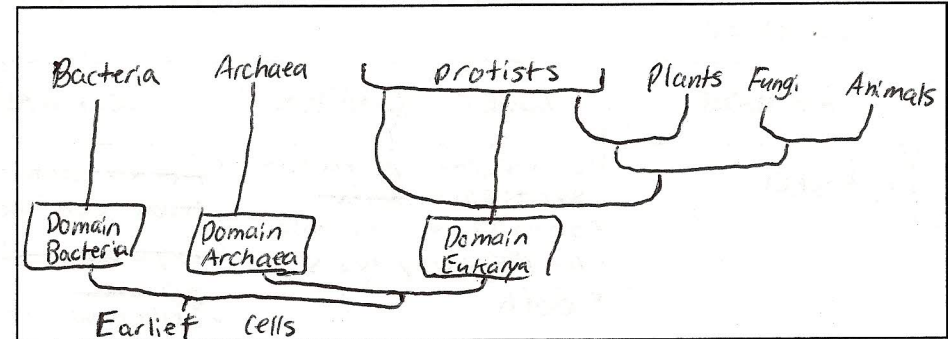
AP Biology

Date 05-28-10

CLASSIFICATION / TAXONOMY / SYSTEMATICS REVIEW

DOMAINS

1. Draw a phylogenetic tree (an evolutionary tree diagram) illustrating the relationship between the three domains.



2. In the table below outline the key characteristics that distinguish the three domains. Include examples of organisms in each domain.

DOMAIN	CHARACTERISTICS	EXAMPLES
Bacteria	<ul style="list-style-type: none"> • Small • single-celled • prokaryotic • cell wall • reproduce by cellular fission 	<ul style="list-style-type: none"> • Anthrax • Cholera • Gonorrhea • Lyme disease • Staph infection
Archaea	<ul style="list-style-type: none"> • distinctive cell membranes • unique biochemical and genetic properties. • Can be autotrophic and produce food through chemosynthesis 	<ul style="list-style-type: none"> • Archae bacteria
Eukarya	<ul style="list-style-type: none"> • Eukaryotic • large • true nucleus • complex cellular organelles • plants / animals / fungi / variety of single-celled organisms. 	<ul style="list-style-type: none"> • Protista • Plantae • Fungi • Animalia