Na	ıme		Period	
AF	P Biology	Date		
		CLASSIFICATION / TAX	ONOMY / SYSTEMATICS REVIEW	
DO	OMAINS			
1.	Draw a phylogenetic tre diagram) illustrating the domains.	ee (an evolutionary tree relationship between the three		
2.	In the table below outl domain.	ine the key characteristics that of	distinguish the three domains. Include exam	nples of organisms in each
	DOMAIN	СНА	RACTERISTICS	EXAMPLES

Name
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## **EUKARYOTIC KINGDOMS**

3. In the table below outline the key characteristics that distinguish the four kingdoms of the Domain Eukarya by making notes on the following: (1) mode of nutrition, (2) presence or absence of cell wall, (3) method(s) of reproduction, and (4) any other notable characteristic.

**AP Biology** 

KINGDOM	MODE OF NUTRITION	CELL WALL	REPRODUCTION	OTHER

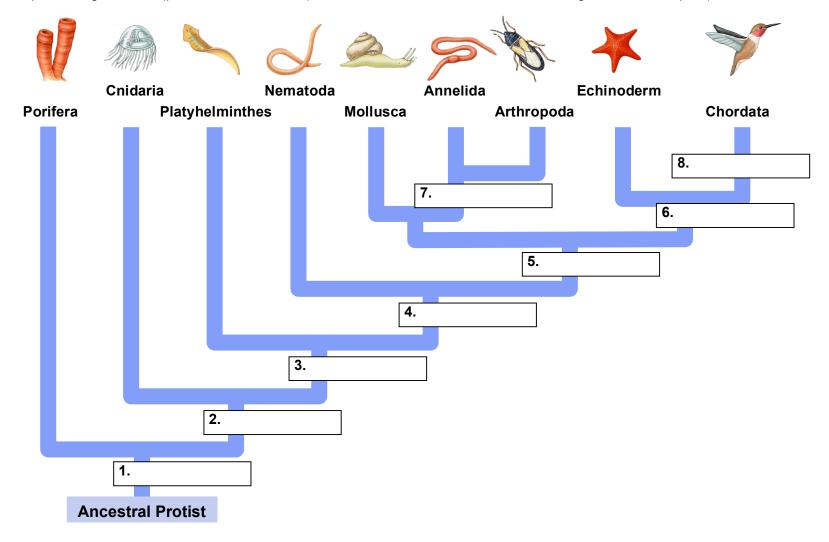
Na	ame	AP	Biology
EU	JKARYOTES: PLANTS		
4.	Draw a phylogenetic tree illustrating the relationship between the four groups of land plants. Note the key characteristic that distinguishes each major branch.		

5. In the table below outline the key characteristics that distinguish the four groups of land plants by making notes on the following: (1) presence or absence of vascular system, (2) dominance of gametophyte vs. sporophyte, (3) mode of reproduction, and (4) any other notable characteristic.

PLANT GROUP	VASCULAR SYSTEM	GAMETOPHYTE & SPOROPHYTE	REPRODUCTION	OTHER

## **EUKARYOTES: ANIMALS**

6. Label the diagram below by (1) listing the common name of each of the groups in the Kingdom Animalia, (2) labeling the key advances at each evolutionary branch point, and (3) explaining the significance of each evolutionary advance. (The lecture Powerpoint, diagram 31.3 (p. 621 of the textbook), and the discussion in the text of that diagram will be helpful.)



Name							

7. In the table below outline the key characteristics that distinguish the groups of the Kingdom Animalia by making notes on the following: (1) type of symmetry, (2) presence of coelom, (3) presence of segmentation, (4) soft body vs. exoskeleton vs. endoskeleton, and (5) any other notable characteristic. Also include examples of organisms in each group.

ANIMAL GROUP	SYMMETRY	COELOM	SEGMENT- ATION	BODY	OTHER	EXAMPLES

**AP Biology** 

## **EUKARYOTES: ANIMALS: VERTEBRATES**

8. In the table below outline the key characteristics that distinguish the five subgroups of the Vertebrates by making notes on the following: (1) body structure & type of body covering, (2) structure used for gas exchange, (3) structure of heart, (4) ectotherm vs. endotherm, (5) mode of fertilization, (6) mode of development, and (7) any other notable characteristic. Also include examples of organisms in each group.

VERTEBRATE SUBGROUP	BODY	GAS EXCHANGE	HEART	ECTO- VS. ENDOTHERM	FERTILIZ- ATION	DEVELOP- MENT	OTHER	EXAMPLES

Name	<del></del>	AP Biology
EUKARYOTES: ANIMALS: VERTE	BRATES: MAMMALS	
	aracteristics that distinguish the 3 subgroups of the Mam (2) care of the young, (3) any other notable characteristic	
MAMMAL SUBGROUP	CHARACTERISTICS	EXAMPLE