

Name \_\_\_\_\_

Period \_\_\_\_\_

AP Biology

Date \_\_\_\_\_

**RAVEN CHAPTER 28 GUIDED NOTES: PROTISTS**

1. How long ago did the eukaryotes evolve? \_\_\_\_\_

2. What distinguishing characteristic is used to place organisms in the Protist Kingdom.  
\_\_\_\_\_  
\_\_\_\_\_

3. What is considered the key event in the evolution of eukaryotes from prokaryotes?  
\_\_\_\_\_

4. Explain the Theory of Endosymbiosis.  
\_\_\_\_\_  
\_\_\_\_\_

5. Give four lines of evidence that support the Theory of Endosymbiosis.

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_

6. Why are Protists said to be the most diverse of all eukaryotes?  
\_\_\_\_\_  
\_\_\_\_\_

7. Why do most taxonomists currently working on eukaryotic relationships consider the Protist Kingdom not an evolutionarily accurate grouping?  
\_\_\_\_\_  
\_\_\_\_\_

8. Make some notes on the general biology of the Protists:

a. cell structure \_\_\_\_\_

\_\_\_\_\_

b. locomotion \_\_\_\_\_

\_\_\_\_\_

c. cyst formation \_\_\_\_\_

\_\_\_\_\_

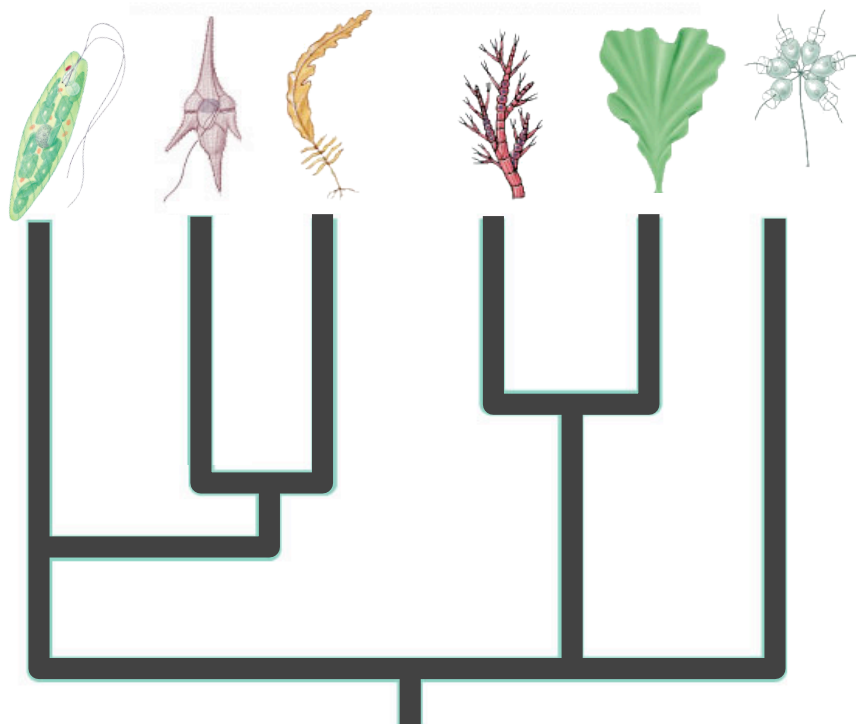
d. nutrition \_\_\_\_\_

\_\_\_\_\_

e. reproduction \_\_\_\_\_

\_\_\_\_\_

9. Label the diagram below illustrating the evolutionary relationships between the Protist lineages.



10. Review the six lineages of the Protists and take notes on their key characteristics as well as listing an example organism.

a. name: \_\_\_\_\_ example \_\_\_\_\_

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b. name: \_\_\_\_\_ example \_\_\_\_\_

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c. name: \_\_\_\_\_ example \_\_\_\_\_

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d. name: \_\_\_\_\_ example \_\_\_\_\_

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e. name: \_\_\_\_\_ example \_\_\_\_\_

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