

**Biology Chapter 3  
Study Guide**

Name \_\_\_\_\_

**Matching: Write the letter on the line of the word that best completes each statement.**

- |  |                   |
|--|-------------------|
| 1. _____ A change in an organism's DNA.                            | A. MOSS           |
| 2. _____ Term for a type of cell <u>with a nucleus</u> .           | B. YEAST          |
| 3. _____ These organisms <u>do not have a nucleus</u> for the DNA. | C. MUTATION       |
| 4. _____ The Kingdom that includes yeast.                          | D. BACTERIA       |
| 5. _____ Organisms put into groups, based on similar traits.       | E. AUTOTROPH      |
| 6. _____ An organism that can make its own food.                   | F. PROKARYOTE     |
| 7. _____ An organism that is "eaten" by other organisms.           | G. PRODUCER       |
| 8. _____ Word that means "many celled."                            | H. FUNGI          |
| 9. _____ An example of a <u>nonvascular</u> plant.                 | I. CLASSIFICATION |
| 10. _____ An example of a <u>unicellular</u> fungi                 | J. MULTICELLULAR  |

**USING THE WORD BANK BELOW, COMPLETE QUESTIONS #11-17.**

ADAPTATION	ENZYMES	HETEROTROPHS	FLOWERING PLANTS
CHLOROPHYLL	ABSORB	DIVERSITY	KINGDOM
MUTATIONS	DECOMPOSERS	SPECIES	FUNGI

11. Organisms have a lot of **different** traits. This is called \_\_\_\_\_.
12. A trait that allows an organism to "**survive in its environment**" is called a/an \_\_\_\_\_ . A \_\_\_\_\_, or *change* in the DNA, results in adaptations. These can be good, bad...or neither! ☺
13. Fungi secrete \_\_\_\_\_ that breakdown substances so that the fungi can then \_\_\_\_\_ the food. This means that fungi are both \_\_\_\_\_ and \_\_\_\_\_.
14. The \_\_\_\_\_ are the most successful (and therefore most evolved) plants.
15. All plants contain \_\_\_\_\_, which they use to make their own food via photosynthesis.
16. The \_\_\_\_\_ Kingdom is made up of Eukaryotic cells. This means that the cells of these organisms DO have a nucleus.

17. This is the largest classification group for organisms \_\_\_\_\_; the smallest group is called \_\_\_\_\_.

**18. COMPLETE THE CHARTS BELOW:  
THE "6" KINGDOMS**

KINGDOM:	ANIMALS	PIANT			EUBACERIA & ARCHAEBACTERIA
AUTOTROPH /HETEROTROPH /DECOMPOSERS					organisms could be anyone of these
EXAMPLE:			YEAST Mush-rooms	EUGLENA PARAMECIUM	<u>Staph. Aureus</u> <u>C. tetani</u>
MOVEMENT? (YES OR NO)					

*The 2 PLANT CATEGORIES*

CATEGORIES:	Vascular plants	Non Vascular plants
Example?		
Can store water? Y or N		
Tubes so it can grow taller? Y or N		

19. SOME TRAITS ARE ADAPTATIONS, AND SOME ARE NOT. TO BE AN ADAPTATION, A TRAIT MUST RESULT IN AN ORGANISM BEING ABLE TO SURVIVE IN ITS ENVIRONMENT.

**NAME AN INHERITED TRAIT THAT IS AN ADAPTATION IN ONE ENVIRONMENT AND WOULD NOT BE AN ADAPTATION IN ANOTHER ENVIRONMENT, OR IF THE ENVIRONMENT SUDDENLY CHANGED.**

\_\_\_\_\_ is an adaptation for the \_\_\_\_\_ when it lives \_\_\_\_\_. But if the environment suddenly changed to being \_\_\_\_\_, this trait would no longer be an adaptation because \_\_\_\_\_.