

## Mitosis and Meiosis Webquest

Name: \_\_\_\_\_

**Objective:** In this activity, you will use the following web pages to examine the processes of mitosis and meiosis. Both of these processes are important in homeostasis as well as human reproduction.

### **PART A: Cell Growth and Mitosis**

Please go to the following webpage:

<http://plaza.ufl.edu/alallen/pgl/modules/rio/stingarees/module/index.html>

1. What is the function of the cell membrane related cell division?
2. What is the role of the nucleus in cell division?
3. What is the role of the centrioles in cell division?
4. What is the role of the microtubules in cell division?

Click on the tab, "Why Must Cells Divide?"

5. Why are cells limited in size?
6. Click on the animation. A cell with 2cm sides has what surface area? \_\_\_\_\_ What volume?
7. What would be the surface to volume ratio?
8. A cell with a large volume will have a more difficult time doing what?

Click on the tab, "What Does Mitosis Do?"

9. What are the 2 major functions of mitosis?

Click on the tab, "Built-in Controls in Mitosis"

10. What are the 2 ways that cells "know" to stop dividing?

Please go to: <http://www2.estrellamountain.edu/faculty/farabee/BIOBK/BioBookmito.html>

11. What ends the cell division process where one cell splits from the sister cell?
12. Some cells divide rapidly. Example?
13. Some cells do not divide at all after maturity. Example?
14. What creatures does binary fission occur in?
15. List the steps in the cell cycle in order:

### **PART B: Meiosis**

Please go to the webpage: <http://www.lpscience.fatcow.com/jwanamaker/animations/meiosis.html>

16. What is the purpose of meiosis?

Please go to <http://www.cellsalive.com/meiosis.htm> Start the animation. Click on the phases

17. What do the chromosomes do in Prophase I?
18. Crossing Over occurs in Prophase I. What is the significance of crossing over?
19. Compare the number of chromosomes in the starting parent cell to the number of chromosomes in each of the four daughter cells formed by meiosis.
20. Label the following steps of Meiosis: <https://www.genome.gov/EdKit/pdfs/1902b2.pdf>



# Mitosis Webquest Answer Key

**Liyong Dong**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Mitosis Webquest Answer Key:**

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