#### 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?
- 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:

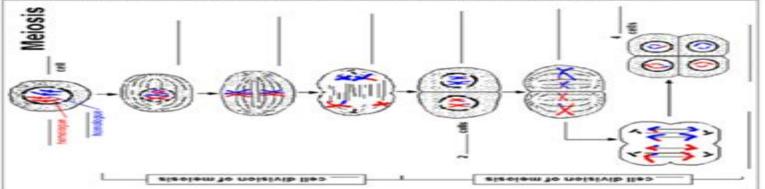
#### PART B: Meiosis

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 1?
- 18. Crossing Over occurs in Prophase 1. What is the significance of crossing over?
- 19. Compare the number of chromosomes I the starting parent cell to the number of chromosomes in each of the four daughter cells formed by meiosis.
- Label the following steps of Meiosis: https://www.genome.gov/EdKit/pdfs/1902b2.pdf



# **Mitosis Webquest Answer Key**

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