

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

Mr. Willis

Biology: \_\_\_\_\_

Date: \_\_\_\_\_

Unit VI

Biology – Cell Division

Need extra help?

check out <http://www.nwr1biology.com>

VI

## Meiosis - Internet Lesson

In this investigation, you will view sites that illustrate the process of meiosis. For each site answer the questions associated.

### Site 1 - Lew-Port's Meiosis Page

1. How many chromosomes does the cell in this animation start with ? \_\_\_\_\_
2. The homologous pairs are represented by similar \_\_\_\_\_
3. Copies of chromosomes are held together by the \_\_\_\_\_
4. Each chromosome finds its \_\_\_\_\_
5. Draw "crossing over" - using your pencil to shade in the areas that exchange parts.
6. How many chromosomes are at each pole of the cell? \_\_\_\_\_
7. During meiosis 2, chromosomes line up again along the cell's \_\_\_\_\_
8. Only \_\_\_\_\_ copy of each chromosome moves toward the poles. Which means only \_\_\_\_\_ chromosomes of the original six.
9. New membranes form around each \_\_\_\_\_
10. Each cell divides, forming a total of \_\_\_\_\_ cells.

### Site 2 - Sumanas Inc., Animation of Meiosis

11. Read the introduction. Explain the difference between sexual and asexual reproduction.
12. DNA replication takes place when? \_\_\_\_\_
13. Meiosis consists of two cell divisions: \_\_\_\_\_ & \_\_\_\_\_
14. Centrosomes (aka centrioles) migrate to \_\_\_\_\_
15. The pairing of homologous chromosomes is called: \_\_\_\_\_
16. Crossing over points are called \_\_\_\_\_
17. What happens in metaphase I \_\_\_\_\_
18. What happens during anaphase I \_\_\_\_\_
19. What is interkinesis? \_\_\_\_\_
20. In prophase II, each cells is [ diploid / haploid ] (circle)
21. In metaphase II, chromosomes line up in [ single | double ] file.
22. What happens during telophase II? \_\_\_\_\_
23. (Click to Conclusion). Each of the four daughter cells produced by meiosis is [ identical / unique]

(Click to Quiz)

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24. With respect to meiosis, when does DNA replication occur? \_\_\_\_\_

25. When does crossing over occur? \_\_\_\_\_

26. During which phase do chromosomes line up along the equator? \_\_\_\_\_

27. During which phase does the nuclear membrane form around the chromosomes? \_\_\_\_\_

### Site 3 -

### Site 4 - PBS: Mitosis vs. Meiosis

29. After viewing the animation, fill out the chart below, by placing a check in the box or boxes to indicate which the event occurs in (some events might have checks for both mitosis and meiosis).

	Meiosis	Mitosis
Two cell divisions		
Centrioles appear		
Chromosomes pair up		
Spindle fibers form		
Two cell divisions		
Cytokinesis		
Four daughter cells		