

Meiosis - Internet Lesson

In this investigation, you will view sites that illustrate the process of meiosis. For each site answer the questions associated. You can either type out the sites listed or go to www.biologycorner.com/links.html to click on them.

Site 1 - Lew-Port's Meiosis Page

Go to-->[Lew-Port's Biology Place](#) and click on Meiosis (also try googling "lewport biology animations" for shortcut)

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

Site 2 - Sumanas Inc., Animation of Meiosis

<http://www.sumanasinc.com/> ---> go to animation gallery --> go to general biology --> Meiosis

12. Read the introduction. Explain how sexual reproduction results in unique offspring.

(Click the "STEP THROUGH" button)

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

(Click to Quiz)

25. With respect to meiosis, when does DNA replication occur? _____
26. When does crossing over occur? _____
27. During which phase do chromosomes line up along the equator? _____
28. During which phase does the nuclear membrane form around the chromosomes? _____