

Meiosis – Webquest!

Name _____ Block _____ Date _____

In this investigation, you will view sites that illustrate the process of meiosis. For each site answer the questions associated. Remember that url's must be typed in exactly as they appear.

Site 1 - 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 cells is [diploid / haploid] (circle one)

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?

Site 2: PBS: Mitosis vs. Meiosis

<http://www.pbs.org/wgbh/nova/baby/> --> Click "How Cells Divide" --> "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		