



Meiosis Webquest

Name: _____

Task 1: Introduction to Meiosis

Use any link below to watch the "Meiosis" video by the Amoeba Sisters. As you watch, answer the following questions.

TinyURL: <https://tinyurl.com/ybm853wu>

Full URL: <https://www.youtube.com/watch?v=VzDMG7ke69g>

1. What does the process of meiosis contribute to? sexual reproduction and genetic diversity
2. What type of cells does meiosis produce? haploid gamete cells
3. How many chromosomes does a human sperm cell or egg cell contain? 23 each
4. Why is meiosis a "reduction division"? because it halves the number of chromosomes
5. Which phase must take place before meiosis starts? interphase
6. How many times is "PMAT" carried out in meiosis? twice
7. Describe what happens during prophase. chromosome condensation and crossing over
8. What happens during crossing over? exchanging of genetic material between homologous chromosomes
9. Where are the chromosomes during metaphase I? metaphase plate
10. What happens during anaphase I? the separation of homologous chromosomes
11. How many cells exist after Meiosis I? two cells
12. What is pulled away by the spindle fibers during anaphase II? sister chromatids
13. What happens during telophase II? reformation of nuclear membranes around daughter chromosomes
14. Why do siblings from the same parents look different from each other? because of genetic recombination and independent assortment
15. What does nondisjunction lead to? an abnormal number of chromosomes in a cell

Task 2: Meiosis and Genetics Game

Use any link below to complete the Snurgle Meiosis and Genetics game on the Bioman Bio website.

Answer the questions below as you move through this activity. Tiny URL: <http://tinyurl.com/196x2xg>

Full URL: <https://www.biomanbio.com/HTML5GamesandLabs/Genes/games/snurglemeiosishtml5page.html>

Click on Start a New Game → Press Space Bar to Continue → Click Meiosis Interactive

Meiosis I

16. Which phase occurs before meiosis can take place? interphase
17. What is chromatin made of? DNA, RNA, and proteins
18. How many pieces of chromatin are in human cells? 42

Meiosis Webquest Answer Key

Bernard John

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

Meiosis Webquest Answer Key:

Meiosis Bernard John, 1990-04-12 Meiosis the antithesis of fertilization is the unique genetically programmed mode of nuclear division associated with a halving of the chromosome number in sexually reproducing eukaryotes. It thus represents a key cellular and developmental pathway in the life of an organism. In this book Bernard John presents the first complete and the most authoritative review of the events and mechanisms of meiosis including their scheduling, their mechanics, and their biochemistry, as well as their genetic control and the variations to be found in them in both sexual and subsexual systems. The text is superbly illustrated with 131 figures and 73 tables. Meiosis must be regarded as essential reading for all students, teachers, and research workers with an interest in eukaryotic cell biology and genetics.

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