

Name: _____

Snurfle Meiosis

Date: Monday, April 28, 2014

Period: _____

DIRECTIONS: By Monday, April 28, you must have the items below COMPLETED.

- Access Snurfle → http://biomanbio.com/GamesandLabs/Genegames/snurfle_meiosis_and_genetics.html
- Click on Continue on the page
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- Click on Meiosis and Genetics Interactive and follow directions as you answer the following questions.

1. When does interphase occur? _____

2. What occurs during interphase? _____

3. Uncoiled stringy DNA is called? _____

4. Human cells have _____ pieces of chromatin.

5. Half of you DNA comes from your _____ and half from your _____.

6. DNA has _____ that determines traits of an organism.

7. Different forms of a gene are called _____.

8. What are the 2 alleles for fur color in Snurfles and which letters represent those alleles?

9. _____ is when DNA copies itself and it occurs during _____.

10. _____ are made during Meiosis. Examples of gametes are _____ and _____.

11. Meiosis occurs in _____ divisions, Meiosis _____ and Meiosis _____.

12. List the phases for Meiosis I in chronological order

13. List the phases for Meiosis II.

14. During prophase I the chromosomes _____ and become _____.
15. Chromosomes that are the same size and have the same genes are called _____.
16. Each half of a replicated chromosome is called a _____.
17. Sister chromatids of a chromosome are _____.
18. The nucleus _____ during prophase I.
19. Homologous chromosomes pair up during prophase I to form a _____.
20. During metaphase I the tetrads line up in the _____ of the cell.
21. The homologous chromosomes split up and move toward the opposite ends of the cell during _____.
22. _____ independent cells begin to form during _____.
23. _____ is the division of the cytoplasm to make two new cells.
24. The 2 new cells that are formed from Meiosis I are _____ because they contain half of the chromosome of the original cell that started meiosis.
25. At the start of Meiosis I you had 1 _____ cell.
26. Meiosis II must take place because each of our new cells still has too much _____.
28. On your meiosis booklet, label each cell has DIPLOID or HAPLOID.
29. The nucleus _____ during prophase II.
30. In Metaphase II the chromosomes line up single file down the _____ of the cell.
31. In _____ the sister chromatids split up.
32. In Telophase II, _____ daughter cells are being formed. They are called _____.
33. Each newly formed cell will form a _____ around the chromosomes.
34. The chromosomes _____ to form _____.
35. _____ occurs at the same time at Telophase II.
36. At the end of Meiosis II you have made _____ gametes (sex cells).
38. If the gametes are produced by a female, they are called _____ or _____.
39. If the gametes are produced by a male, they are called _____.

***NOTE:** There is more questions for you about this video, but I will hold off on giving them to you for now.