

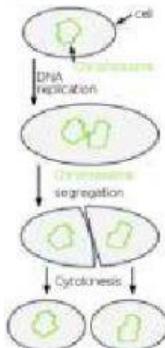
Learning Target: I can compare & contrast the advantages and disadvantages of sexual and asexual reproduction.



### Pros & Cons of Sexual and Asexual Reproduction Video Notes

1. What is our learning target for today?
2. What are two forms of asexual reproduction?
3. What happens during asexual reproduction?
4. Binary fission occurs in \_\_\_\_\_ Mitosis occurs in \_\_\_\_\_

#### Binary Fission – Advantages of Asexual Reproduction



5. 1<sup>st</sup> Binary fission is \_\_\_\_\_ and \_\_\_\_\_ than \_\_\_\_\_
6. 2<sup>nd</sup> No \_\_\_\_\_ needed, so \_\_\_\_\_ used to \_\_\_\_\_
7. 3<sup>rd</sup> Bacteria populations grow \_\_\_\_\_ since the \_\_\_\_\_ process is so \_\_\_\_\_
8. Bacteria large population gives them a \_\_\_\_\_  
Bacteria large population allows them to \_\_\_\_\_ other organisms for \_\_\_\_\_
9. 4<sup>th</sup> Frequent \_\_\_\_\_ can \_\_\_\_\_ bacteria populations from being \_\_\_\_\_

#### Binary Fission – Disadvantages of Asexual Reproduction

10. 1<sup>st</sup> Most \_\_\_\_\_ in bacteria \_\_\_\_\_ the population.

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11. 2<sup>nd</sup> Can be \_\_\_\_\_ for bacteria to \_\_\_\_\_. Why is this so? \_\_\_\_\_

What can extreme temperatures do to bacteria populations? \_\_\_\_\_

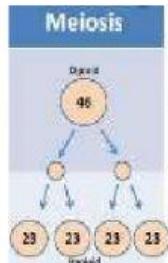
12. 3<sup>rd</sup> Bacteria have to \_\_\_\_\_ with each other for \_\_\_\_\_

13. 4<sup>th</sup> Bacteria population can be \_\_\_\_\_ by \_\_\_\_\_ since they are mostly the \_\_\_\_\_

Less genetic diversity = \_\_\_\_\_ Why is this so? \_\_\_\_\_

More genetic diversity = \_\_\_\_\_

### Meiosis overview



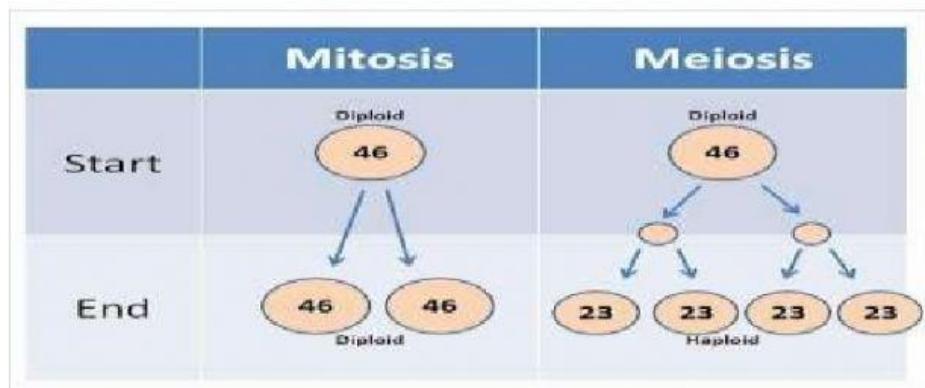
14. Meiosis goes through \_\_\_\_\_ cycles of \_\_\_\_\_.

Gametes/sex cells for males is called \_\_\_\_\_. Gametes/sex cells for females is called \_\_\_\_\_

15. PMAT is \_\_\_\_\_

16. What is the goal of Meiosis? \_\_\_\_\_

17. What is the difference between Mitosis and Meiosis? (Analyze the diagram below) \_\_\_\_\_



18. Meiosis produces genetically \_\_\_\_\_ daughter cells from the parent cell which leads to more \_\_\_\_\_

19. The most important part of meiosis is during Prophase 1 which is when \_\_\_\_\_ occurs. What does crossing over lead to? \_\_\_\_\_

20. Why is crossing over so important? \_\_\_\_\_

More genetic variety = \_\_\_\_\_

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**Meiosis – Advantages of Sexual Reproduction**

21. 1<sup>st</sup> Offspring have characteristics of \_\_\_\_\_ which makes them \_\_\_\_\_ and not \_\_\_\_\_  
\_\_\_\_\_ = \_\_\_\_\_!
22. 2<sup>nd</sup> Sexual Reproduction creates more \_\_\_\_\_. Genetic differences = \_\_\_\_\_
23. 3<sup>rd</sup> Sexual Reproduction creates genetic diversity = \_\_\_\_\_
24. 4<sup>th</sup> Sexual Reproduction helps prevent \_\_\_\_\_

**Meiosis – Disadvantages of Sexual Reproduction**

25. 1<sup>st</sup> Sexual Reproduction does \_\_\_\_\_  
Sexual Reproduction = \_\_\_\_\_ = \_\_\_\_\_
26. 2<sup>nd</sup> Sexual Reproduction requires \_\_\_\_\_ = Some may not \_\_\_\_\_
27. 3<sup>rd</sup> Favorable genetics may not \_\_\_\_\_  
What are some examples of this? \_\_\_\_\_
28. 4<sup>th</sup> Can get \_\_\_\_\_
29. 5<sup>th</sup> Fewer offspring/children are \_\_\_\_\_, more \_\_\_\_\_ is required for \_\_\_\_\_
30. Write three differences between sexual and asexual reproduction.

Scan the QR Code to take the video quiz!

