Activator ?: How do you think our cells play a role in reproduction and growth????

USE THE VIDEO TO HELP WITH YOUR ANSWER!!!!!

Cell division

One cell will enlarge and divide into a new cell.

 All cells in our body are created from other cells.





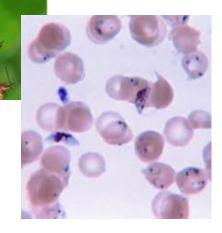
When Cells Divide they create new cells

There are two types of Reproduction

1. Asexual Reproduction- only one parent

2. Sexual Reproduction- two parents





Asexual Reproduction

 Asexual reproduction is more common in invertebrates (no spine) than vertebrates. (spine)

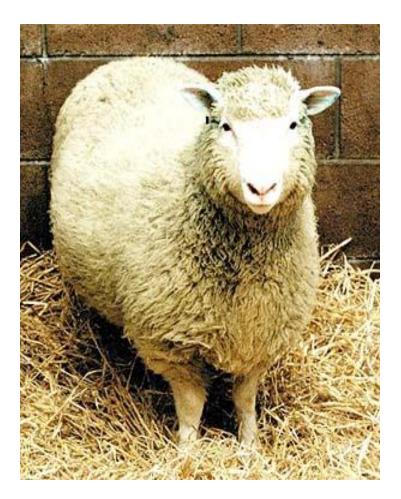
• Unicellular & multi-cellular plants can reproduce both asexually and sexually.





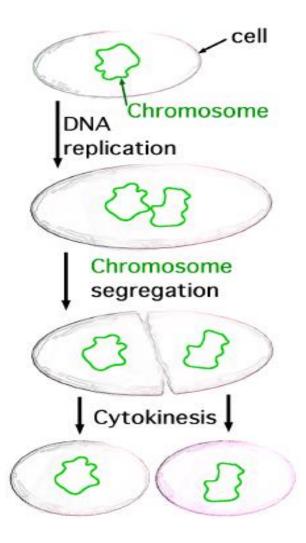
1. Cloning

- Produces offspring from a single body cell of parent.
- New organism genetically identical to parent.



CLONING





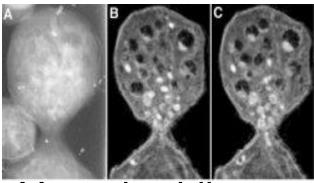
2. Binary Fission

- One-celled organism undergoes mitosis to form two daughter cells of equal size.
- Examples: Ameba, paramecium, bacteria

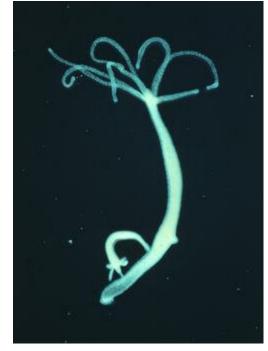
BINARY FISSION

Streptococcus pneumoniae Growth of pathogenic bacteria shown in time-lapse

Speed = x540



Yeast budding



3. Budding

- Unequal cytoplasm division
- Bud smaller than parent
- Bud may or may not remain attached
- Example: yeast, hydra

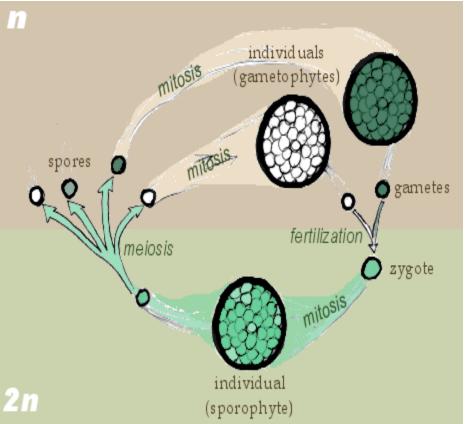
Hydra budding



BUDDING



LOADING...

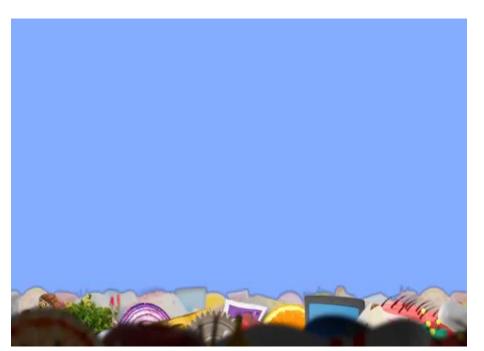


Spores produced in a sporic life cycle

4. Sporulation

- Forming of spores
- Spores are single cells produced by mitotic divisions
- Spores have tough coats and survive unfavorable conditions





5. Regeneration

- Development of a new organism from part of the parent organism
 - i.e. seastar
- Replacement of lost body parts in invertebrates
 - i.e. lobster claw





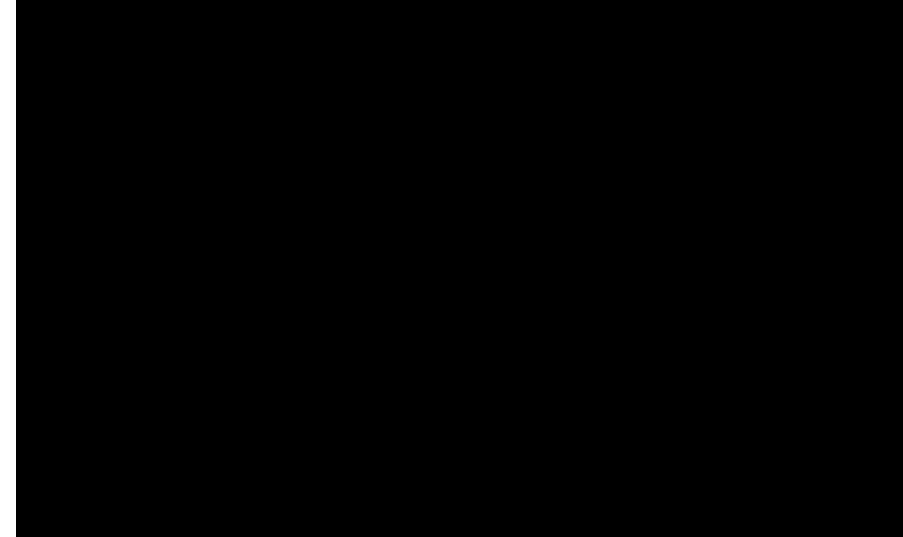
6. Parthenogenesis

 underdeveloped egg produced by the female develops into a new individual without the fertilization from a

male



Summary



1/18/19 Complete 2 vocab sets on Quizlet.

 Title: 9.1 Cellular
Title: 9.2 Mitosis and Cytokinesis

Use text book page
Use text book page
244
248

USE THE GLOSSARY IN THE BACK OF THE BOOK FOR DEFINITIONS