

Bio 1C ACCESS
9-13-06

Vocab

Mitosis:

Meiosis:

Diploid:

Polyploidy:

Differentiation:

Phenotype:

Genotype:

Sympatric speciation:

Allopatric speciation:

Centromeres:

Xylem:

Phloem:

Guard cells:

Cytokinesis:

Cell plate:

Vesicles:

Zygote:

Gamete:

Spore:

Sporangium:

Sporophyte:

Gametophyte:

Tissue:

Isomorphic Alteration of Generations:

Heteromorphic Alteration of Generations:

Heterokaryotic:

Questions

How is cytokinesis different between plants & animals?

As the complexity of life increased, did organisms rely more or less on mutation for genetic variability? Explain.

Why is meiosis evolutionarily favorable?

Random assortment & crossing over are two **IMPORTANT** processes that drive genetic variation . Explain these two processes & explain why they are so important.

What are some positive and negative effects of errors in meiosis?

What are some ways polyploidy can occur and what are some possible results?

What are some advantages and disadvantages of sexual reproduction?

What are some advantages and disadvantages of asexual reproduction?

What is a sexual life cycle?

Diagram and describe the zygotic life cycle.

Diagram and describe the gametic life cycle.

Diagram and describe the sporic life cycle, also referred to as alternation of generations.

Know the functions & location of (PLANT) eukaryotic cell organelles!!

What are the three tissue systems of plants?

What are the three cell types in the ground tissue and what is their function?

What are the 2 main cell types in the vascular tissue and what is their function?