

Name: _____ Hr: _____ Date: _____

Today's activity is designed to help you review the cell cycle, see some animations, identify slides of plant cells in various stages of mitosis, and ultimately, understand the difference between haploid and diploid and how that affects chromosome number!
Have fun!

Cell Cycle/ Cell Reproduction (Mitosis) Computer Lab Activity:

meiosis II. fertilization. binary fission.			c. d. e.
meiosis II is similar to mitosis in that homologous chromosomes synapse. DNA replicates before the division. the daughter cells are diploid. sister chromatids separate during anaphase. the chromosome number is reduced.	_____ 3.	M	a. b. c. d. e.
If the DNA content of a diploid cell in the G ₁ phase of the cell cycle is x, then the DNA content of the same cell at metaphase of meiosis I would be 0.25x 0.5x x. 2x. 4x.	_____ 4.	If	th a. b. c. d. e.
If we continued to follow the cell lineage from question 4, then the DNA content at metaphase of meiosis II would be 0.25x. 0.5x. x. 2x. 4x.	_____ 5.	If	m a. b. c. d. e.
How many different combinations of maternal and paternal chromosomes can be packaged in gametes made by an organism with a diploid number of 8 (2n = 8)? 2 4 8 16 32	_____ 6.	H	g; a. b. c. d. e.
The immediate product of meiosis in a plant is a spore.	_____ 7.	T	a.