

UNIT 6: CELL DIVISION: MITOSIS AND MEIOSIS

In this unit, we will be learning how cells divide through the processes of mitosis and meiosis.

Standards

LS.Bio.1.3 Use models to explain how the structure of organelles determines its function and supports overall cell processes.
 LS.Bio.1.4 Construct explanations to compare prokaryotic and eukaryotic cells in terms of structures and degree of complexity.
 LS.Bio.2.1 Use models to illustrate how cellular division results in the reproduction, growth, and repair of organisms.
 LS.Bio.2.2 Construct an explanation to illustrate that proteins regulate gene expression resulting in cellular differentiation, specialized cells with specific functions, and uncontrolled cell growth.
 LS.Bio.6.1 Use models to explain how DNA is passed from parents to offspring through the processes of meiosis and fertilization in sexual reproduction.
 LS.Bio.6.2 Construct an explanation to summarize how inheritable genetic variations may result from: new genetic combinations in meiosis, mutations during replication, or mutations caused by environmental factors.

Date	Essential Questions/Standards	Activities	Homework
Monday 12/14		- DNA Test Unit Project (honors) due One Pager due	
Wednesday 12/16	What is the difference between sexual and asexual reproduction? How do organisms reproduce asexually?	Sexual vs. Asexual reproduction Slides: Notes Click n Learn activity (Answer Key)	
Friday 12/18 Winter Break begins	How do eukaryotic cells divide asexually?	Mitosis Slides: Notes (slides 1-25) Mitosis fun notes (teacher copy) Twizzler Mitosis Models (templates)	Mitosis Practice Worksheet due 1/9
Tuesday 1/5		- Review Mitosis Practice (key) Onion Root microscope stations (after showing practice slides (print odd pages for individual practice)) Name that	Review for quiz on Mitosis

		phase game	
Thursday 1/7		• Mitosis Quiz • Cancer Notes (slides 26-44)	
Monday 1/11		• Notes - Intro to Meiosis (1-28) • Meiosis graphic organizer	
Wednesday 1/13		• Steps of Meiosis - Notes (review, and slides 29-36) • Meiosis Worksheet	Finish Meiosis Worksheet as needed Crossword Unit homework due 1/20
Friday 1/15		• Mitosis and Meiosis venn diagram • Mitosis Meiosis color by number • Study Guide • One Pager • Kahoot • Trashketball Game • Another Kahoot	Review for cell division mini test.
Thursday 1/21		• Cell Division Mini test Notes - • Intro to Genetics • Genotype/Phenotype practice	
Review Materials	Quizlet - Mitosis Quizlet - Meiosis Study Guide Kahoot		