

Meiosis and Genetics Unit 8

PreAP Expectations



I CAN -

Test Date:




Thursday
Jan 24

- 1. Explain why meiosis is important for genetic variation in organisms with sexual reproduction.
- 2. Explain Independent Assortment and Law of Segregation as they relate to sexual reproduction.
- 3. Explain how crossing over further increases genetic variation within a species.
- 4. Describe how the chromosome number changes as a result of meiosis and its importance.
- 5. Explain how the inheritance of an offspring's traits depends on the parent's genes.
- 6. Set-up a monohybrid cross using a Punnett square.
- 7. Predict the probability of the genotypes and phenotypes in monohybrid crosses.
- 8. Predict the probability of the genotypes and phenotypes of the F1 Generation in a dihybrid cross.
- 9. Using a Punnett square, predict the probability of a cross involving incomplete Dominance, codominance, multiple alleles, and sex-linked traits.

Words to Know

Meiosis, homologous chromosomes, sister chromatids, diploid (2n), haploid (n), crossing over, gamete, Punnett square, allele, homozygous, heterozygous, genotype, phenotype, monohybrid, dihybrid, incomplete dominance, codominance, multiple alleles, sex-linked

Calendar

Monday 1/7	Tuesday 1/8	Wednesday 1/9	Thursday 1/10	Friday 1/11
	<p>Topic: Meiosis Activities: Online Meiosis Practice By the end of the period I can: 1, 3, 4, 5</p>	<p>Topic: Meiosis Activities: Model Meiosis & Practice By the end of the period I can: 1, 3, 4, 5</p>	<p>Topic: Genetics Activities: Independent Assortment & Law of Segregation By the end of the period I can: 2</p>	<p>Topic: Monohybrid Activities: Practice Solving Monohybrid Cross Men&NonMen By the end of the period I can: 5, 6, 7</p>
Monday 1/14	Tuesday 1/15	Wednesday 1/16	Thursday 1/17	Friday 1/18
<p>Topic: Monohybrid Activities: Practice Solving Monohybrid Cross – Sex Linked By the end of the period I can: 5, 6, 7, 9</p>	<p>Topic: Monohybrid Activities: Practice Solving Monohybrid Cross – Sex Linked By the end of the period I can: 5, 6, 7, 9</p>	<p>Topic: Monohybrid Activities: Practice Solving Monohybrid Crosses Super Hero Style By the end of the period I can: 5, 6, 7, 9</p>	<p>Topic: Dihybrid Activities: Practice Solving Dihybrid Cross By the end of the period I can: 5, 8</p>	<p>Topic: Dihybrid Activities: Practice Solving Dihybrid Cross By the end of the period I can: 5, 8</p>
Monday 1/21	Tuesday 1/22	Wednesday 1/23	Thursday 1/24	Friday 1/25
	<p>Topic: Dihybrid Activities: Practice Solving All Genetic problems. Breakout! By the end of the period I can: 1, 2, 3, 4, 5, 6, 7, 8, 9</p>	 <p>Topic: REVIEW Activities: REVIEW By the end of the period I can: 1, 2, 3, 4, 5, 6, 7, 8, 9</p>	<p>.....</p> <p>Meiosis and Genetics Exam</p> <p>.....</p> <p>Teachers OUT today</p>	<p>Test Analysis</p>

**** This is a tentative calendar and subject to change.