

	Tuesday	Wednesday	Thursday	Friday
Unit/ Lesson Big Ideas	Unit D. Genetic Processes			
Overall Expectations	<p>D2. investigate genetic processes, including those that occur during meiosis, and analyse data to solve basic genetics problems involving monohybrid and dihybrid crosses;</p> <p>D3. demonstrate an understanding of concepts, processes, and technologies related to the transmission of hereditary characteristics.</p>			
Specific Expectations	<p>D2.1 use appropriate terminology related to genetic processes, including, but not limited to: haploid, diploid, spindle, synapsis, gamete, zygote, heterozygous, homozygous, allele, plasmid, trisomy, non-disjunction, and somatic cell</p> <p>D3.2 explain the concepts of DNA, genes, chromosomes, alleles, mitosis, and meiosis, and how they account for the transmission of hereditary characteristics according to Mendelian laws of inheritance</p> <p>D3.4 describe some genetic disorders caused by chromosomal abnormalities (e.g., nondisjunction of chromosomes during meiosis) or other genetic mutations in terms of chromosomes affected, physical effects, and treatments</p> <p>D3.5 describe some reproductive technologies (e.g., cloning, artificial insemination, in vitro fertilization, recombinant DNA), and explain how their use can increase the genetic diversity of a species (e.g., farm animals, crops)</p>			
Learning Goals	Students are able to understand and explain the concepts of: <ul style="list-style-type: none"> - Genetic Variation - Reproductive technologies 		- Mendel's experiment	Unit 01- Test (Multiple choice and structured questions)
Success Criteria	<ul style="list-style-type: none"> - Genetic Variation - Chromosomes - Independant assortment - Crossing over - Nondisjunction and other genetic mutations - Prenatal testing - Cloning and its types 		<ul style="list-style-type: none"> - Gregor Mendel - experimental procedure and key terms - Mendels model 	
Instructional Strategies	Explanation using diagrams and videos			
Assessment & Evaluation	Knowledge and Understanding Communication			
Homework / Class Work	Review week 02 lessons from text book page 161, 146			

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