

	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>D3.1 explain the phases in the process of meiosis in terms of cell division, the movement of chromosomes, and crossing over of genetic material</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>			
Learning Goals	<p>Students are able to understand and explain the concepts of:</p> <ul style="list-style-type: none"> - The cell cycle - Cell division and reproduction - Meiosis 			
Success Criteria	<ul style="list-style-type: none"> - It's functions and different stages of cell cycle, including interphase, prophase, telophase, anaphase etc., - (DNA structure & function, types of cells in the human body, sexual reproduction and chromosome - Formation of gametes, crossing over, phases of meiosis 			
Instructional Strategies	Explanation using diagrams and videos			
Assessment & Evaluation	Knowledge and Understanding Communication			
Homework / Class Work	Review of week 01 lesson from text book on page 152, 161			

