Biology Course 2 Proficiency Sheet: Cellular Genetics & Heredity 23% of Milestones Assessment		
fsicourses.net Biology Course 2 Cellular Genetics & Heredity	*Score*	*Date Passed*
2.1 Protein Synthesis		
a. The Structure and Function of DNA & RNA **LT 1: I can construct an explanation of how the structures of DNA and RNA lead to the expression of information within the cell via the processes of replication, transcription, and translation.**		
b. DNA Replication Heredity, & Cell Division **LT 2: I can explain the role of DNA in heredity.** **I can explain the process of DNA replication and its role in cell division.**		
c. Protein Synthesis **LT 3: I can construct an explanation of how the structures of DNA & RNA lead to the expression of information within the cell via the process of replication, transcription, and translation.**		
2.2 Genetic Mutations		
a. Genetic Mutations **LT 4: I can identify and explain gene mutations.** **I can explain how mistakes in DNA replication can lead to mutations.**		
b. Human Genetic Disorders (Chromosomes mutations) **LT 5: I can identify and explain chromosome mutations.** **I can explain how mistakes in crossing over during meiosis can lead to chromosome mutations.**		
c. Analyzing Karyotypes **LT 6: I can analyze and use karyotypes to determine different types of chromosome mutations.**		
2.4 Mendel's Laws		
a. The Work of Gregor Mendel **LT 7: I can describe Mendel's laws and recognize how they can be used to explain the role of meiosis in reproductive variability.**		
b. Applying Mendel's Principles **LT 8: I can use mathematical models to predict and explain patterns of inheritance.**		
c. Non-Mendelian Genetics **LT 9: I can determine how models can be used to explain patterns of inheritance.**		
2.5 Other Patterns of Inheritance		
a. Sex-linked Inheritance **LT 10: I can determine how models can be used to explain patterns of inheritance.**		
b. Pedigrees **LT 11: I can determine how models can be used to explain patterns of inheritance.**		

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