

## Biology Online Courses 1 & 2 Assessments Proficiency Sheets

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<b>Biology Course 1: Cells</b>		
<b>20% of Milestones Assessment</b>		
<i>Assessment</i>	<i>Score</i>	<i>Date Passed</i>
Properties of Water (Biochemistry)		
Carbon Compounds – macromolecules (Biochemistry)		
Chemical Reactions and Enzymes (Biochemistry)		
Cell Theory (Cell types, Structure & Function)		
Prokaryotic vs. Eukaryotic Cells (Cell types, Structure & Function)		
Cell Structure & Function (Cell types, Structure & Function)		
Cell Transport (Homeostasis & Transport)		
Cell Membrane (Homeostasis & Transport)		
Homeostasis & Cells (Homeostasis & Transport)		
Feedback Loops (Homeostasis & Transport)		
Chemical Energy and ATP (Cellular Energy)		
Photosynthesis & Respiration Overview (Cellular Energy)		
The Process of Photosynthesis (Cellular Energy)		
Photosynthesis Under Extreme Conditions (Cellular Energy)		
Photosynthesis & Cellular Respiration Comparison (Cellular Energy)		
The Process of Cellular Respiration (Cellular Energy)		
Fermentation (Cellular Energy)		
The Process of Cell Division (Cell Growth, Division, & Cancer)		
Cancer and Cell Cycle Regulation (Cell Growth, Division, & Cancer)		
<b><u>Course 1 Assessment: Cells</u></b>		
<b>- Biochemistry</b>		
<b>- Cell types, Structure &amp; Function</b>		
<b>- Homeostasis &amp; Transport</b>		
<b>- Cellular Energy</b>		
<b>- Cell Growth, Division, &amp; Cancer</b>		

**Biology Course 2: Cellular Genetics and Heredity**  
**23% of Milestones Assessment**

<i>Assessment</i>	<i>Score</i>	<i>Date Passed</i>
The Structure and Function of DNA and RNA (DNA & Protein Synthesis)		
Protein Synthesis & Ribosomes (DNA & Protein Synthesis)		
Genetic Mutations (Mutations)		
Human Genetic Disorders - Chromosome mutations (Mutations)		
Analyzing Karyotypes (Mutations)		
Selective Breeding (Biotechnology)		
Recombinant DNA Technology (Biotechnology)		
Applications of Genetic Engineering (Biotechnology)		
Ethics & Impacts of Biotechnology (Biotechnology)		
The Work of Gregor Mendel (Mendelian Genetics)		
Applying Mendel's Principles (Mendelian Genetics)		
Non-Mendelian Genetics (Non-Mendelian Genetics)		
Sex-Linked Inheritance (Non-Mendelian Genetics)		
Pedigrees (Non-Mendelian Genetics)		
Binary Fission vs. Mitosis (Reproduction)		
Meiosis (Reproduction)		
Mitosis vs. Meiosis (Reproduction)		
<b>Course 2 Assessment: Cellular Genetics and Heredity</b>		
- DNA & Protein Synthesis		
- Mutations		
- Biotechnology		
- Mendelian Genetics		
- Non-Mendelian Genetics		
- Reproduction		