

Biology Course 1 Proficiency Sheet: Cells 20% of Milestones Assessment		
fsicourses.net Biology Course 1 Cells Assessments	Score	Date Passed
1.1 The Chemistry of Life		
Properties of Water LT 1: I can identify and explain how the properties of water impact life on earth.		
Carbon Compounds LT 2: I can construct arguments supported by evidence to relate the structure of macromolecules (carbohydrates, proteins, lipids, and nucleic acids) to their interactions in carrying out cellular processes.		
Chemical Reactions & Enzymes LT 3: I can explain how enzymes impact chemical reactions and help maintain homeostasis.		
1.2 Cell Structure & Function		
Life is Cellular LT 4: I can construct arguments supported by evidence to explain the difference between prokaryotic and eukaryotic cells.		
Cell Structure LT 5: I can construct an explanation of how cell structures and organelles (i.e., nucleus, cytoplasm, cell membrane, cell wall, chloroplasts, lysosome, Golgi, endoplasmic reticulum, vacuoles, ribosomes, mitochondria) interact as a system to maintain homeostasis.		
Cell Transport LT 6: I can plan and carry out investigations to determine the role of cellular transport (e.g., active, passive, and osmosis) in maintaining homeostasis;		
1.3 Homeostasis & Cells		
Cell Membrane LT 7: I can plan and carry out investigations to determine the role of the cell membrane in maintaining homeostasis.		
Homeostasis LT 8: I can plan and carry out investigations to determine the role of cellular transport (e.g., active, passive, and osmosis) in maintaining homeostasis.		
1.4 Photosynthesis		
Chemical Energy & ATP LT 9: I can explain how the process of the ATP/ADP cycle helps cells maintain homeostasis.		
Photosynthesis & Respiration Overview LT 10: I can construct arguments supported by evidence to explain the difference between the reactants and products of photosynthesis and respiration.		
The Process of Photosynthesis LT 11: I can ask questions to investigate and provide explanations about the roles of photosynthesis in the cycling of matter and flow of energy within the cell.		
1.5 Cellular Respiration & Fermentation		
The Process of Cellular Respiration LT 12: I can ask questions to investigate and provide explanations about the roles of respiration in the cycling of matter and flow of energy within the cell.		

Fermentation LT 13: I can ask questions to investigate and provide explanations about the roles of fermentation in the cycling of matter and flow of energy within the cell.		
1.6 Cell Growth & Division		
The Process of Cell Division (Mitosis) LT 14: I can recognize the role of cellular reproduction via mitosis in maintaining genetic continuity.		
Genetic Continuity via Binary fission, Mitosis, and Meiosis LT 15: I can recognize the role of cellular reproduction in maintaining genetic continuity.		
Cancer and Cell Cycle Regulation LT 16: I can construct arguments supported by evidence to explain how cancer impacts the overall homeostasis of the human body.		
Course 1 Assessment: Cells		
- Biochemistry		
- Cell types, Structure & Function		
- Homeostasis & Transport		
- Cellular Energy		
- Cell Growth, Division, & Cancer		