Lesson Plan for Week 4 : Feb 23rd-27th **Grade: 12_Biology** **Course / Code: SBI4U** **Teacher: Farha Fairoze**

	Monday	Tuesday	Thursday
Unit/ Lesson Big Ideas	**Unit B: Biochemistry** **Unit C: Metabolic Processes**		
Overall Expectations	**B3**. demonstrate an understanding of the structures and functions of biological molecules, and the biochemical reactions required to maintain normal cellular function. **C2.** Developing Skills of Investigation and Communication **C3**. Understanding Basic Concepts		
Specific Expectations	**B3.6** describe the structure of cell membranes according to the fluid mosaic model, and explain the dynamics of passive transport, facilitated diffusion, and the movement of large particles across the cell membrane by the processes of endocytosis and exocytosis **B3.3** identify common functional groups within biological molecules (e.g., hydroxyl, carbonyl, carboxyl, amino, phosphate), and explain how they contribute to the function of each molecule **C2.1** use appropriate terminology related to metabolism, including, but not limited to: energy carriers, glycolysis, Krebs cycle, electron transport chain, ATP synthase, oxidative phosphorylation, chemiosmosis, proton pump, photolysis, Calvin cycle, light and dark reactions, and cyclic and noncyclic phosphorylation [C] **C3.1** explain the chemical changes and energy conversions associated with the processes of aerobic and anaerobic cellular respiration (e.g., in aerobic cellular respiration, glucose and oxygen react to produce carbon dioxide, water, and energy in the form of heat and ATP; in anaerobic cellular respiration, yeast reacts with glucose in the absence of oxygen to produce carbon dioxide and ethanol)		
Learning Goals	Students are able to understand and explain and draw the structures of the concepts of: - Transport across membranes - Endocytosis & Exocytosis - Fluid Mosaic model and Enzyme activity - ATP, ADP & Energy - Aerobic & Anaerobic Respiration -		
Instructional Strategies	Explanation using diagrams and videos		**Discussion of unit of corrected papers**
Assessment & Evaluation	Knowledge and Understanding Communication		
Homework / Class Work			
