Cells

SPI: 3210.1.1-8, 3210 Inq.1-7, 3210.M.1-8, 3210.T/E.1-3

Topics: ***Chemistry in Biology -*** Properties of Water (6.3), Organic Macromolecules (6.4); Enzymes (6.2, 35.1)**,** ***Cell Structure and Function –*** Cell Theory(7.1), Plasma Membrane(7.2), Prokaryotic & Eukaryotic Cells/Major Organelles(7.3), Homeostasis and Transport (7.4), ***Cell Reproduction -*** Cell Growth(9.1), Mitosis(9.2), Cell Regulation(9.3).

Objective: **Study the structure and function of prokaryotic and eukaryotic cells. Study of organic molecules and chemical reactions in organisms.**

GQ: What are the four basic macromolecules? How do we test for proteins, carbohydrates and lipids? What role do enzymes play in chemical reactions in the body? How are cells organized to carry on the processes of life? How are prokaryotic cells and eukaryotic cells adapted to their functions? How does a cell produce a new cell? How does water and other molecules move across membranes?

Left Side Pages			Right Side Pages		
	Page#	Title		Page #	Title

Date:	Parent signature and comment

EOC: Cells (24%) # items 11-13

These SPI's are discussed and used throughout the entire semester

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