Pennsville School District General Biology Curriculum Guide Grade 10 Standard 5.5 (Characteristics of Life) All students will gain an understanding of the structure, characteristics and basic needs of organisms and will investigate the diversity of life. Upon completion of General Riology the fall with the structure of the

Upon completion of General Biology the following objectives will be achieved by 75% of the students with 75% accuracy.				
Objective	Content	Activities	Materials/Resources	Assessments
A. The cell is the	1. All organisms are	Chapter 2,7,8,9,10 -	Textbook—(Prentice	Chapter Quizzes
unit of life. Students will be able to relate the structure of	composed of cells. In multi-cellular organisms, specialized	History of a Cell Building	Hall) Miller & Levine "Biology".	Chapter Tests
molecules to their	cells perform specialized	macromolecules	Supplies—Computers,	Unit Tests
function in cellular structure and metabolism.	functions. Organs and organ systems are composed of cells and function to serve the	Chemical Reactions and Enzymes	printers, teacher-created handouts	Cell Model Project Laboratory Reports
	needs of cells for food,	•	Laboratory Activities	Laboratory Reports
	air and waste removal. The way in which cells function is similar in all living organisms.	Eukaryotic & Prokaryotic Cell Structure and Function – Model Making	Computer lab – internet resources explaining various cellular functions & structures.	Concept Illustrations
				Verbal Presentations of Materials
	2. Cells carry out the many functions needed to sustain life. They grow and divide, thereby producing more cells. Food is used to provide energy for the work that cells do and is a source of the molecular building blocks from which needed materials are assembled.	Osmosis & Diffusion Activity		Power Point Demonstrations of Related Cellular Procedures
		Levels of Cellular Organization		
		Autotrophs vs. Heterotrophs		
	3. Living systems are made of complex molecules (including carbohydrates, fats,	What's the Big Deal about ATP?		
	proteins and nucleic acids) that consist	The Reactions of		