LYNN ENGLISH HIGH SCHOOL SCIENCE DEPARTMENT AP BIOLOGY CURRICULUM

STANDARDS/TOPIC	LEARNING OBJECTIVES	RESOURCES	ASSESSMENT
AP TOPIC/CONTENT I. Molecules and Cells A. Chemistry of Life • Atoms & Molecules • Elements & Compounds MASSACHUSETTS STANDARDS 1. The Chemistry of Life Broad Concept: Chemical elements form organic molecules that interact to perform the basic functions of life. 1.1 BASIC CHEMISTRY • Recognize that biological organisms are composed primarily of very few elements. • The six most common are C, H, N, O, P, S.	Students will be able to: 1. Define element, atom, compound, and molecule. 2. Draw a model of the structure of an atom. 3. Explain how an elements properties depend on the structure of its atom. 4. Explain how chemical bonding between atoms is dependent on formation and function of molecules. 5. Contrast ionic and covalent bonds. 6. Describe weak bonds and Van der Waals interactions. 7. Explain how chemical reactions make and break chemical bonds.	TEXT: Biology, Seventh Edition, by Campbell and Reece Reading: Chapter 2: Chemical Context of Life Lecture Notes: Chapter 2 Notes. Chemistry PPT Periodic Table of Elements. Labs/Activities Making Models Adopt an Element Homework: Concept Checks Testing Your Knowledge	Chapter 2 Assessment Collins: pH AP Lab report Lab rubric Homework Rubric School Wide Rubric