**Westbrook School Department**

**Course Blueprint**

| **Content Area / Grade Level****Science 11-12** |
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| **Course Title**AP Chemistry |
| **Course Description**This course is a second year high school Chemistry class designed and taught like a first year college Chemistry class. The purpose is to allow students to earn college credit by earning a 3, 4 or 5 on the AP Chemistry college board exam. This class covers the second half of the Big Ideas and Learning Objectives on the AP Chemistry college board website.  |
| **Westbrook K-12 Learning Standards*** Asking Questions and Defining Problems
* Developing and Using Models
* Planning and Carrying Out Investigations
* Analyzing and Interpreting Data
* Using Mathematics and Computational Thinking
* Constructing Explanations and Designing Solutions
* Engaging in Argument from Evidence
* Obtaining, Evaluating and Communicating Information
 | **Guiding Principles / Vision of the Graduate*** A clear and effective communicator
* A self-directed and lifelong learner
* A creative and practical problem solver
* A responsible and involved citizen
* An integrative and informed thinker
 |
| **Expected Outcomes -** Expectations for students upon completion of the course.**Pass the AP Chemistry exam.**THE BLUEPRINT FOR THIS CLASS: enduring understanding, essential knowledge, vidoes, assessments and labs are all on AP classroom. Anyone teaching will have access to this website and will use this reference extensively. It would be repetitive to repeat it here. <https://apstudents.collegeboard.org/courses/ap-chemistry> |
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| **Core Units of Study** 1. Atomic Structure and Properties
2. Molecular and Ionic Compound Structure and Properties
3. Intermolecular Forces and Properties
4. Chemical Reactions
5. Kinetics
6. Thermodynamics
7. Equilibrium
8. Acids and Bases
9. Application of Thermodynamics
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| **Westbrook Learning Standards**  |  **Content for this Unit:** |
| **Performance Indicators (Skills)**The students will be able to: | **Essential Questions** |
| **Common Assessment**  |
| **Instructional Suggestions / Resources** -  | **Assessment (formative) Suggestions/Resources**  |

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