| **Topic, Unit, Theme or Process Taught** | **Maine LEARNING RESULT Links (Standard and PI)** | **Strategies/Skills/Concepts/Secure Goals**<br><br>**By the end of this grade level or course, learners will be able to:** | **Resources** (Complete bibliographic form for required texts or resources and lists of supplementary resources) | **Assessments and Major Assignments** (Tests, quizzes, projects, papers, homework, labs, etc.) |
|---|---|---|---|---|
| Chemistry & Matter | D3 | Demonstrate an understanding of:<br>• Measurements<br>• Matter | Modern Chemistry Holt, Rinehard, & Winston Davis, Metcalf 1999 | measurement lab |
| Organization of Matter | D3 | • Atoms<br>• Electrons<br>• Periodic law<br>• Chemical bonding | | chapter tests<br>memorizing elements<br>periodic table project |
| Language of Chemistry | | • Chemical formulas and compounds<br>• Chemical equations and reactions<br>• Stoichiometry<br>• Reaction energy | | chapter tests<br>lab for stoich<br>problem sets<br>labs for reactions<br>labs for energy |
| Phases of Matter | | • Gases & gas laws<br>• Liquids & solids | | gas laws lab |
| Solutions | | • Solutions<br>• Acids & bases | | filtration lab |
| Organic and other | | • Carbons & hydrocarbons<br>• Polymers | | polymer lab |