

**Missouri Science Standard III  
Curriculum Mapping**

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| Matter and Energy  | Boardworks High School Chemistry Presentation   |
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| <b>A. Properties, Characteristics and Structures of Matter</b>   |   |
| 1. The Periodic Table organizes the elements according to their physical properties and chemical reactivity.     | Atomic Number and Mass Number<br>Electron Structure and the Periodic Table<br>Patterns of Behavior<br>The Noble Gases<br>The Periodic Table   |
| 2. Models can be used to represent elements, compounds, and ions.  | Comparing Bonding<br>Compounds<br>Covalent Bonding<br>Formation of Ions<br>Giant Covalent Structures<br>Ionic Bonding<br>Ionic Compounds<br>Introducing Atoms<br>Naming Compounds<br>Why do atoms form bonds? |
| 3. Solution properties depend upon the concentrations, properties, and interactions of the solutes and solvents. | Properties of acids and alkalis<br>Solubility<br>Solutions  |
| 4. The particulate model describes the electrically neutral atom.  | Introducing Atoms<br>Atomic Structure   |