

## **Course Power Standards**

Department: Science

Course: Chemistry

Instructors: Thomas Richards and Larry Rasmussen

1. Students will understand that all matter has a common origin and that it can be explained by atomic structure.
2. Students will understand the electronic make-up of atoms based on quantum mechanics. They will also understand nuclear reactions and how they relate to chemical reactions.
3. Students will understand chemical bonding and the relationship of the type of bonding to the chemical and physical properties of substances.
4. Students will be able to use chemical equations to describe chemical reactions.
5. Students will understand what factors influence chemical reactions and how to treat chemical equilibrium.
6. Students will understand the properties of solutions.
7. Students will understand the importance of chemistry, various aspects of math involved, and safety.
8. Students will understand the use of the mole as a unit for calculating quantities in chemical reactions.

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