



Proficiency Scale

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GRADE LEVEL: 8 COURSE NAME: SCIENCE
MEASUREMENT TOPIC: VERIFY CONSERVATION OF MASS IN A CHEMICAL REACTION

4

- Evaluate/critique a claim from a sample material based on chemical properties presented

3

- **Engage in an argument from evidence to support the claim that matter is conserved in a chemical reaction. (8)**
- **Observe and analyze data regarding characteristic properties of substances before and after they are combined to determine whether a chemical reaction has occurred. (6)**

2

- Use a model to represent atoms of reactants that are conserved as products in a chemical reaction. (8a)
- Illustrate valence electron configuration of ionic and covalent bonds from main group elements. (5a)
- **Obtain, evaluate, and communicate information from the periodic table to make predictions about the reactivity of the main group elements. (5)**

1

With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.

Key Vocabulary:

products, reactants, chemical properties, conservation of mass, counting atoms, & balancing chemical equations.