HS-PS1-7: Conservation of Atoms in Chemical Reactions

Use mathematical representations to support the claim that atoms, and therefore mass, are conserved during a chemical reaction. (Energy and Matter)

Assessment

Toe Warming Chemistry
Evidence Statement

Vocabulary

Chemical reaction
Balanced chemical equation
Reactants and products
Atoms (or molecules or ions)
Moles
Mass
Conservation of mass
Atomic scale
Macroscopic scale
Matter

Mini-Lessons

Matter Level 4 - Conservation of Matter
Matter Level 4 - Conservation of Matter Thinking Slides
Energy Level 6 - Conservation of Energy
Energy Level 6 - Conservation of Energy Thinking Slides

Graphic Organizers

Phenomena Observation Graphic Organizer
Questioning Graphic Organizer
Modeling Graphic Organizer
Planning an Investigation Organizer - Experimental
Planning an Investigation Organizer - Observational
Investigation Evidence Organizer
Engaging in Argumentation Organizer

Progressions

Using Mathematics and Computational Thinking
PS1.B: Chemical Reactions
Energy and Matter

Formative Assessment(s)