

New York State P-12 Science Learning Standards (NYSSLS)

MS. Chemical Reactions

- ✓ Complete Standard for New York Middle School - Chemical Reactions Standard
- ✓ MS-PS1-2, PS1-5, PS1-6
- ✓ The Bundle will SAVE you 70%



UPGRADE to the Bundle



This Bundle:

- Get immediate access to my **COMPLETE** New York State Middle School Curriculum
- Every standard covered at a **HUGE DISCOUNT**

New York Middle School Science Curriculum

New York State P-12 Science Learning Standards (NYSSLS)

- ✓ Standards are directly aligned to New York State Middle School Science Standards according to the New York State Education Department
- ✓ The Bundle will SAVE you 80%



Click here to have a look

Resources Included

MS-PS1-2

- Physical and Chemical Properties Lesson
- Physical and Chemical Changes – Scavenger Hunt
- Physical and Chemical Properties and Changes Science Word Sprint
- Physical and Chemical Properties Changes Lab Station Activity
- Physical and Chemical Properties Word Search and Scramble Activity
- Matter Lesson
- Chemical Reactions Lesson
- Density and Buoyancy Lesson
- Mass Volume Density and Buoyancy Scavenger Hunt
- Measuring Density Lab
- Introductory Chemistry Labs

MS-PS1-5

- Law of Conservation of Mass Lesson
- The Law of Conservation of Mass Worksheet
- Crash Course Chemistry The History of Atomic Chemistry
- Matter - Exploring the World Around You Reading
- Properties of Matter Reading

MS-PS1-6

- Thermal Energy Change Reactions Experiments
- How Instant Ice Packs and Heat Packs Work Reading



NGSS MS-PS1-2

Curriculum Bundle

Chemical Reactions & Properties of Matter

- ✓ 4 Lessons and 7 Activities
- ✓ Everything You Need to Teach NGSS MS-PS1-1



NGSS MS-PS1-5

Curriculum Bundle

Conservation of Matter

- ✓ 1 Lesson and 4 Activities
- ✓ Everything You Need to Teach NGSS MS-PS1-5

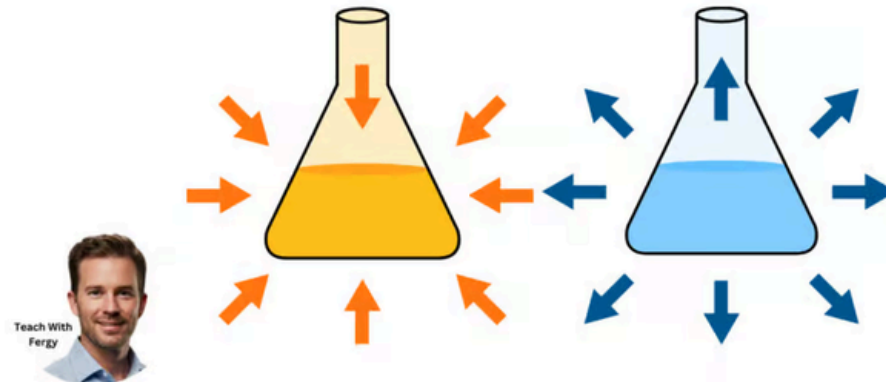


NGSS MS-PS1-6

Curriculum Bundle

Thermal Energy by Chemical Reactions

- ✓ 6 Activities
- ✓ Everything You Need to Teach NGSS MS-PS1-6



Everything You Need to Teach Middle School Chemical Reactions in New York State using NYSSLS

Complete Lessons

Chemical Reactions

- Chemical Reactions
- Reactants and Products
- Describing Chemical Reactions
- Symbols in Equations
- Energy in Chemical Reactions
- Practice



This digital presentation includes both Google and Office resources and is Google Classroom Ready

Matter

Science Reading Comprehension

Article - Grade 8 and Up



Improve your students' Scientific Literacy and Analysis Skills, use as an Emergency Substitute Plan or Create Applicability in your Classroom

Law of Conservation of Mass

Included in your bundle:

- Law of Conservation of Mass
- Chemical Reactions
- Reactants and Products
- Counting Atoms
- Practice Questions



Middle School

Engaging Activities

Designing a Thermal Energy Transfer Device Using Chemical Reactions



- ✓ 4 activities
- ✓ 2 endothermic and 2 exothermic reactions

Reading Comprehension Passage and Questions

How Instant Ice Packs and Heat Packs Work

6th, 7th, and 8th Grade Science

- ✓ No Prep, Ready-to-Use Resource in Google and Office Format
- ✓ Includes Comprehension and Extension Questions



Introductory Chemistry Labs



The Standard is Explained and the Resources it Incorporates are Outlined

MS. Chemical Reactions – New York State – Middle School

MS-PS1-2. Analyze and interpret data on the properties of substances before and after the substances interact to determine if a chemical reaction has occurred.

[Clarification Statement: Examples of reactions could include burning sugar or steel wool, fat reacting with sodium hydroxide, and mixing zinc with hydrogen chloride.] [Assessment Boundary: Assessment is limited to analysis of the following properties: density, melting point, boiling point, solubility, flammability, and odor.]

Resources:

- Physical and Chemical Properties Lesson
- Physical and Chemical Changes – Scavenger Hunt
- Physical and Chemical Properties and Changes Science Word Sprint
- Physical and Chemical Properties Changes Lab Station Activity
- Physical and Chemical Properties Word Search and Scramble Activity
- Matter Lesson
- Chemical Reactions Lesson
- Density and Buoyancy Lesson
- Mass Volume Density and Buoyancy Scavenger Hunt
- Measuring Density Lab
- Introductory Chemistry Labs

MS-PS1-5. Develop and use a model to describe how the total number of atoms does not change in a chemical reaction and thus mass is conserved. [Clarification Statement: Emphasis is on law of conservation of matter and on physical models or drawings, including digital forms, that represent atoms.] [Assessment Boundary: Assessment does not include the use of atomic masses, balancing symbolic equations, or intermolecular forces.]

Resources:

- Law of Conservation of Mass Lesson
- The Law of Conservation of Mass Worksheet
- Crash Course Chemistry The History of Atomic Chemistry
- Matter - Exploring the World Around You Reading
- Properties of Matter Reading

MS-PS1-6. Undertake a design project to construct, test, and modify a device that either releases or absorbs thermal energy by chemical processes. * [Clarification Statement: Emphasis is on the design, controlling the transfer of energy to the environment, and modification of a device using factors such as type and concentration of a substance. Examples of designs could involve chemical reactions such as dissolving ammonium chloride or calcium chloride.] [Assessment Boundary: Assessment is limited to the criteria of amount, time, and temperature of substance in testing the device.]

Resource:

- Thermal Energy Change Reactions Experiments
- How Instant Ice Packs and Heat Packs Work Reading



Who is this Bundle for?

- Teachers who teach middle school science in **New York State** and use **NYSSLS**
- Teachers who want multiple resources at their fingertips including lessons and a variety of activities, in order to meet the standard
- Teachers who don't have time to develop their own resources or organize what to teach and when

