

Full Standard BUNDLE

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Bundles Included

NGSS MS-PS1-1 Curriculum Bundle

Atomic Composition of Simple Molecules

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



NGSS MS-PS1-2 Curriculum Bundle

Chemical Reactions & Properties of Matter

- ✓ 4 Lessons and 7 Activities
- ✓ Everything You Need to Teach NGSS MS-PS1-2



NGSS MS-PS1-3 Curriculum Bundle

Synthetic Materials and Natural Resources

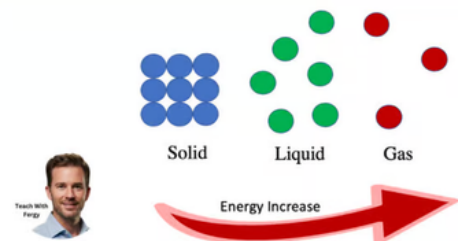
- ✓ 1 Lesson and 3 Activities
- ✓ Everything You Need to Teach NGSS MS-PS1-3



NGSS MS-PS1-4 Curriculum Bundle

Thermal Energy & Particle Motion

- ✓ 2 Lessons and 5 Activities
- ✓ Everything You Need to Teach NGSS MS-PS1-4



NGSS MS-PS1-5 Curriculum Bundle

Conservation of Matter

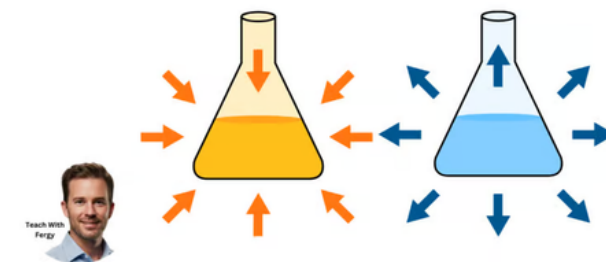
- ✓ 1 Lesson and 4 Activities
- ✓ Everything You Need to Teach NGSS MS-PS1-5



NGSS MS-PS1-6 Curriculum Bundle

Thermal Energy by Chemical Reactions

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



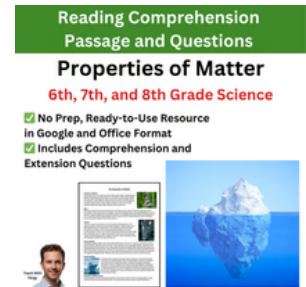
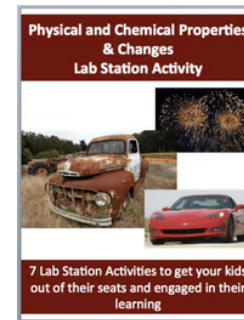
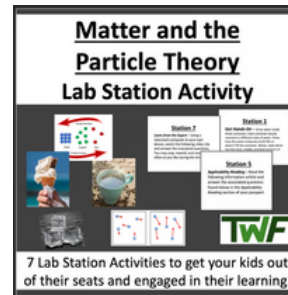
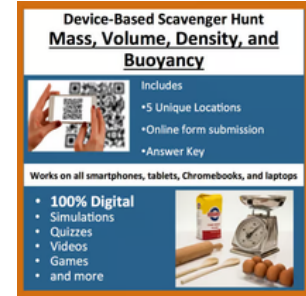
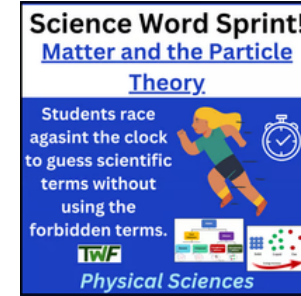
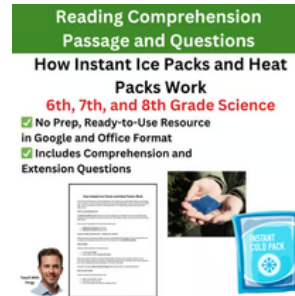
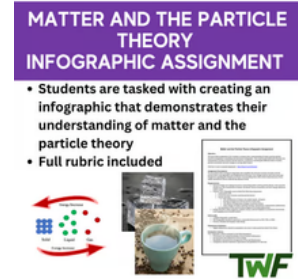
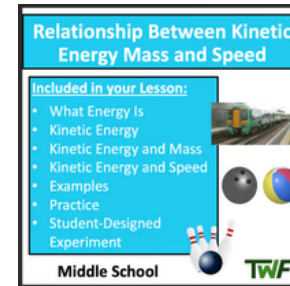
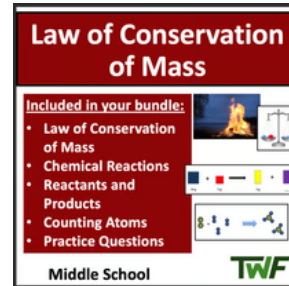
Everything You Need to Completely Cover NGSS MS-PS1

Complete Lessons

Activities

Labs

Projects



The Standard is Explained and the Resources it Incorporates are Outlined

MS-PS1 Matter and its Interactions

Note: There may be resources that overlap between the standards. Simply choose the order that best fits your classroom. Also, there are more resources here than you will most likely decide to use. I have provided extra so you can make the best decision for your students on what is best to include.

MS-PS1-1. Develop models to describe the atomic composition of simple molecules and extended structures. [Clarification Statement: Emphasis is on developing models of molecules that vary in complexity. Examples of simple molecules could include ammonia and methanol. Examples of extended structures could include sodium chloride or diamonds. Examples of molecular-level models could include drawings, 3D ball and stick structures, or computer representations showing different molecules with different types of atoms.] [Assessment Boundary: Assessment does not include valence electrons and bonding energy, discussing the ionic nature of subunits of complex structures, or a complete description of all individual atoms in a complex molecule or extended structure is not required.]

Resources:

- Atomic Structure and Notation Lesson
- Atomic Theory and Model Lesson
- Atoms - History and Theory – Scavenger Hunt
- Atoms Elements and Compounds Digital Interactive Notebook – Chapters 2, 3, and 4
- Atoms Elements and the Periodic Table Word Search and Scramble
- Crash Course Chemistry The History of Atomic Chemistry
- The Periodic Table Lesson
- Counting Atoms in Compounds Worksheet
- Chemical Symbols Formulas and Compounds Lesson

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-PS1-3. Gather and make sense of information to describe that synthetic materials come from natural resources and impact society. [Clarification Statement: Emphasis is on natural resources that undergo a chemical process to form the synthetic material. Examples of new materials could include new medicine, foods, and alternative fuels.] [Assessment Boundary: Assessment is limited to qualitative information.]

Resources:

- Synthetic Materials Lesson
- Synthetic Material Research Assignment
- Biofuels from Algae Reading
- The Development of Synthetic Insulin Reading

MS-PS1-4. Develop a model that predicts and describes changes in particle motion, temperature, and state of a pure substance when thermal energy is added or removed. [Clarification Statement: Emphasis is on qualitative molecular-level models of solids, liquids, and gases to show that adding or removing thermal energy increases or decreases kinetic energy of the particles until a change of state occurs. Examples of models could include drawings and diagrams. Examples of particles could include molecules or inert atoms. Examples of pure substances could include water, carbon dioxide, and helium.]

Resources:

- Relationship Between Kinetic Energy Mass Speed Lesson
- Particle Motion Temperature and States Lesson
- The Insulator – Thermal Insulator Challenge
- Thermal Energy Change Reactions Experiments
- Matter and the Particle Theory Lab Station Activity
- Matter and Particle Theory Science Word Sprint
- Matter and the Particle Theory Infographic Assignment

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 and use the NGSS**
- **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**