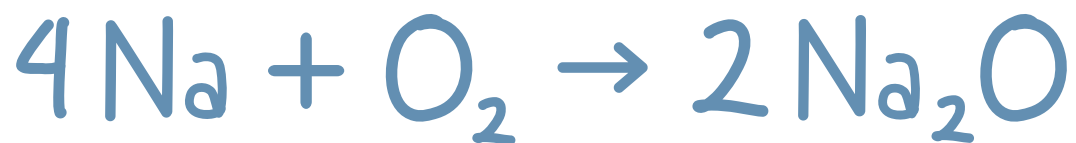


Chemical Reactions and Balancing Unit

- Covers: Chemical Reactions, Balancing, Chemical Equations, and Symbols
- Lesson & Engaging Activities
- Daily Teaching Schedule



Chemical Reactions and Balancing

Unit - Chemical Reactions and Balancing

- 3 Lessons
- 7 Activities

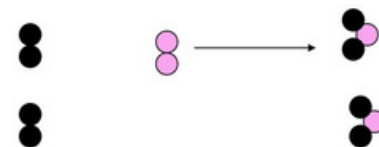
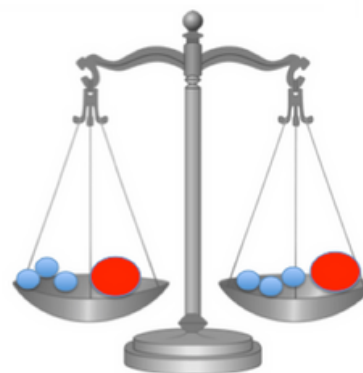
Types of Chemical Reactions

- An introduction to chemical reactions
- Reactants vs. Products
- Word Equations
- Chemical Equations and Symbols
- Energy and Catalysts
- Synthesis Reactions
- Decomposition Reactions
- Single Replacement Reactions
- Double Replacement Reactions
- Combustion (complete and incomplete) Reactions

Balancing

- An overview of the Law of Conservation of Mass
- Review of Chemical Reactions
- Rules for Balancing
- Lots of examples and practice

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Lesson Includes Teacher and Student Versions - Videos Embedded in Lessons

Balancing Chemical Reactions

- Balancing Chemical Reactions
- Rules For Balancing
- What Not To Do
- Practice



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

Types of Chemical Reactions

- The 5 Types of Reactions
- Synthesis Reactions
- Decomposition Reactions
- Single Displacement Reactions
- Thermite Reaction
- Double Displacement Reactions
- Combustion Reactions
- Practice



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Chemical Reactions

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



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Types of Chemical Reactions

The five types of chemical reactions that will be covered include:

- Synthesis
- Decomposition
- Single Replacement
- Double Replacement
- Combustion



1

Videos embedded directly into the slides. One-click access.

Describing Chemical Reactions

A reaction can be described several ways:

- 1) A word equation is a way of describing a chemical reaction using the names of the reactants and products e.g.

- 2) _____

Describing Chemical Reactions

A reaction can be described several ways:

- 1) A word equation is a way of describing a chemical reaction using the names of the reactants and products e.g.
 $\text{Iron} + \text{sulfur} \rightarrow \text{Iron (II) sulfide} + \text{energy}$
- 2) A chemical equation is a way of describing a chemical reaction using the chemical formula of the reactants and products e.g.
 $\text{Fe} + \text{S} \rightarrow \text{FeS} + \text{energy}$

Student and Teacher versions of the presentations

Engaging Activities



Balancing and Types of Chemical Reactions Worksheet

- 3 Worksheets (25 questions each)
- Students have to balance the chemical equation and state the type of reaction

Includes

- Ionic compounds
- All answers

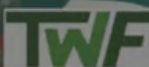


75 Print-and-Go Questions

Bill Nye The Science Guy Chemical Reactions

Two Versions

- With and without a Word Bank
- Fully Editable
- Answer Key
- Google Doc, Word, and PDF



Device-Based Scavenger Hunt

Types of Chemical Reactions



Includes

- 5 Unique Locations
- Online form submission
- Answer Key

Works on all smartphones, tablets, Chromebooks and

- 100% Digital
- Simulations
- Quizzes



Device-Based Scavenger Hunt Chemical Reactions



Includes

- 5 Unique Locations
- Online form submission
- Answer Key

Works on all smartphones, tablets, Chromebooks and laptops

- 100% Digital
- Simulations
- Quizzes
- Videos
- Games
- Word Scramble
- and more



Chemical Reactions and Balancing Lab Station Activity



7 Lab Station Activities to get your kids out of their seats and engaged in their learning

Daily Teaching Schedule

UNIT – Chemical Reactions and Balancing **11 – 12 DAYS TOTAL**

Types of Chemical Reactions – 5-6 days			
Number of Day(s)	Course Content	Teaching Resources	NGSS
1	• An introduction to chemical reactions • Reactants vs. Products • Word Equations • Chemical Equations • Equation Symbols • Energy • Examples and Practice • Catalysts	Chemical Reactions Introduction - Lesson	HS-PS1-1 HS-PS1-2 HS-PS1-4 HS-PS1-5 HS-PS1-7 HS-PS3-1 HS-PS3-2 HS-PS3-4
2-3	• An overview of the 5 main types of reactions • Details on Synthesis Reactions • Decomposition Reactions • Single Replacement Reactions • Double Replacement Reactions • Combustion (complete and incomplete) Reactions	Types of Chemical Reactions - Lesson	
1	Hands-on review activity	Chemical Reactions – Digital Scavenger Hunt Activity	
1	Review activity	Bill Nye The Science Guy - Chemical Reactions - Video Companion Worksheet	
Assessments	There are multiple assessments included throughout this unit. UNIT TEST		

Balancing Equations – 6 days			
Number of Day(s)	Course Content	Teaching Resources	NGSS
2	• An overview of the Law of Conservation of Mass • Review of Chemical Reactions • Rules for Balancing • Lots of examples and practice	Balancing Chemical Reactions - Lesson	HS-PS1-1 HS-PS1-2 HS-PS1-5 HS-PS1-7
1	Hands-on review activity	Chemical Reactions and Balancing Equations - Lab Station Activity	
1	Hands-on review activity	Types of Chemical Reactions and Balancing - Digital Scavenger Hunt Activity	
2	Review activity	Balancing and Types of Chemical Reactions - 3 Worksheets	
Assessments	There are multiple assessments included throughout this unit. UNIT TEST		

The Following Resources are Included

Types of Chemical Reactions

- [Chemical Reactions Introduction - Lesson](#)
- [Types of Chemical Reactions - Lesson](#)
- [Chemical Reactions – Digital Scavenger Hunt Activity](#)
- [Bill Nye The Science Guy - Chemical Reactions - Video Companion Worksheet](#)

Balancing Reactions

- [Balancing Chemical Reactions - Lesson](#)
- [Chemical Reactions and Balancing Equations - Lab Station Activity](#)
- [Types of Chemical Reactions and Balancing - Digital Scavenger Hunt Activity](#)
- [Balancing and Types of Chemical Reactions - 3 Worksheets](#)

Who's It For?

- High School Physical Science Teachers
- Teachers using NGSS
- Teachers who want to increase their student's engagement and retention
- Teachers not looking to reinvent the wheel

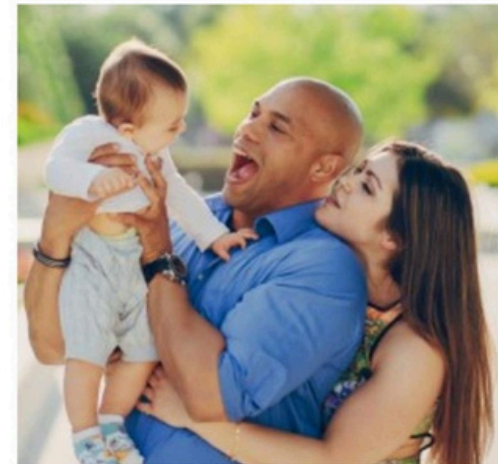


Save yourself the **STRESS AND TIME**



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Spend your time WISELY



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