

Chemical Reaction Types and Balancing Unit

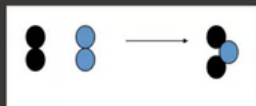
- ✓ Multi-format Activities: Labs, scavenger hunts, readings, projects, and quizzes.
- ✓ Student-Centered Learning: Hands-on tasks, research, diagrams, videos, and comprehension questions.
- ✓ Fully Editable, Digital & Printable



Bundle Includes

Chemical Reactions

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

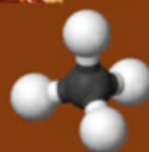


TWF

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



TWF

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

Balancing Chemical Reactions

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



TWF

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

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



TWF

Includes

- Ionic compounds
- All answers

75 Print-and-Go Questions

Device-Based Scavenger Hunt Types of 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

Teaching Timeline and Resources

Outlined and Explained

Chemical Reaction Types and Balancing Unit – Teaching Timeline

Day	Resource & focus	How it fits the unit
1	Chemical Reactions – Chemistry Lesson	Introduce the basics: this lesson package includes teacher and student PowerPoint versions, hyperlinked demonstration videos and a student handout. Students learn what chemical reactions are, the difference between reactants and products, how to write word and chemical equations, interpret symbols, understand energy changes and see catalysts in action. The student slides have blanks for note-taking.
2	Types of Chemical Reactions Lesson	This lesson covers the five main reaction types—synthesis, decomposition, single replacement, double replacement and combustion (both complete and incomplete).
3	Balancing Chemical Equations Lesson	Teach the Law of Conservation of Mass and the rules for balancing chemical equations. This lesson features teacher and student presentations, two worksheets with answers, hyperlinked videos and a student handout. Students practice balancing a variety of equations after reviewing reaction basics.
4	Balancing Practice Day	Use the worksheets from the balancing lesson for a dedicated practice day. Students work individually or in groups to balance equations of all five reaction types, while the teacher circulates to provide feedback. This reinforces the rules and develops fluency.
5	Types of Chemical Reactions & Balancing Device-Based Scavenger Hunt	Students get up and move while using devices to complete tasks: watching videos, running simulations, taking auto-graded quizzes, finishing or starting a story, performing calculations, reading a news article and giving an opinion, solving a word scramble, answering short-answer questions and conducting web research. The scavenger hunt reinforces synthesis, decomposition, single- and double-replacement, combustion and incomplete combustion reactions, as well as balancing equations. The activity is available in Word and PDF formats and cuts down on paper.
6	Reaction-Type Research Project	Assign students (individually or in pairs) a specific reaction type. They must research a real-world example of that reaction, write the balanced equation, identify reactants and products, describe energy changes, and explain its industrial or environmental significance.
7	Chemical Reactions & Balancing Equations Lab Station Activity	Students rotate through nine stations where they draw reaction models, research topics, watch short videos, write explanations and answer questions. The activity covers describing chemical reactions, balancing chemical equations and classifying reaction types. A lab-station passport, reading passages and answer keys are included.

Pacing: The sequence works well over **eight class periods**. The first three lessons introduce reaction basics, classification and balancing; the fifth day is a hands-on lab station activity; days four and five focus on balancing equations (lesson plus practice); day six is a digital scavenger hunt; day seven is a research project; and day eight is a task-card review game. You can condense the practice day or combine the project and review to shorten the unit or add extra practice to extend it to nine or ten days.

Assessment:

- Use the **worksheets and blanks** in the introductory and balancing lessons for quick checks of understanding.
- Collect **lab-station passports** to gauge how well students describe, classify and balance reactions during the station activity.
- Assess students' ability to apply concepts through the **research project**, which asks them to balance a real-world reaction and explain its significance.
- End with the **task-card review game**, which can be used as a formative or summative assessment of reaction types and balancing.

Customization: All presentations, lab-station cards and scavenger-hunt materials are fully editable, so you can adjust examples, difficulty and pacing to suit honors/AP or general-level classes. You can also modify or replace stations, add your own reaction examples, or tailor the research project to local industries or interests. The mix of lecture, hands-on inquiry, digital activities, and cooperative review ensures flexibility for diverse learning styles.

Who is this Bundle for?

- **Science teachers who want multiple resources at their fingertips including lessons and a variety of activities, in order to engage their students.**
- **Teachers who don't have time to develop their own resources or organize what to teach and when.**