

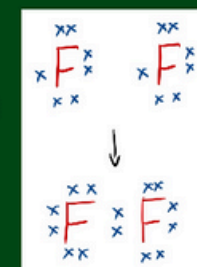
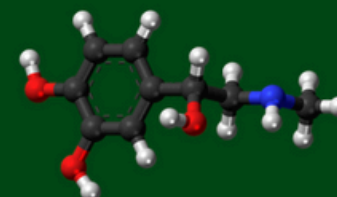
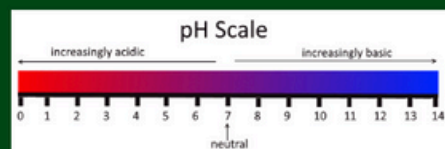
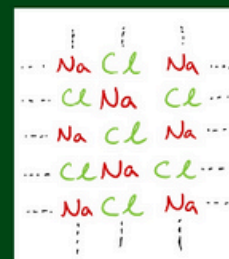
Chemistry - Atoms, Compound Naming and Chemical Reactions Unit Bundle

- ✓ Complete Unit with a Daily Teaching Schedule
- ✓ 9 Lessons, 12 Activities, 3 Projects, 1 Quiz, 1 Unit Test
- ✓ Google & Print Ready
- ✓ Aligned to NGSS



Chemistry Unit – Atoms, Naming and Chemical Reactions

1. Physical and Chemical Changes
2. Periodic Table and Bohr Diagrams
3. Lewis Structures
4. Ions
5. Ionic Compounds
6. Polyatomic Ions and Compounds
7. Molecular Compounds
8. Chemical Reactions Overview
9. Balancing Chemical Equations
10. Types of Chemical Reactions
11. Acids, Bases, and Neutralization Reactions



Complete Teaching Schedule

Chemistry Unit - Daily Teaching Schedule

This teaching schedule is created in a way that lets your students watch the lesson at home before coming to class so that you can spend more time doing activities, etc. Clicking the hyperlink will take you to the video lesson. It can also be altered so that you teach the lessons using the included presentations. The worksheets can be found inside the lesson folder unless otherwise stated.

Periodic Table - Located in the Bonus folder

Blank Periodic Table - Located in the Bonus folder

Day 1:

- Teach - Lesson 1 - Physical and Chemical Properties/Changes
 - Students Complete Notes
 - [Lesson 1 Video](#)
- Physical and Chemical Properties Worksheet

Day 2:

- Physical and Chemical Properties & Changes Lab Station Activity - 50 minutes
 - Located in Bonus folder
- Properties of Matter Handout
- HW:
 - Watch - Lesson 2 - [Periodic Table](#)
 - Complete Lesson Notes

Day 3:

- Review Video - Lesson 2 - Periodic Table
- Draw first 20 BR diagrams and/or Periodic Table
- HW:
 - Watch - [Lesson 3 - Lewis Structures](#)
 - Complete Lesson Notes

Day 4:

- Review Video - Lesson 3 - Lewis Structures
- Lewis Structures for first 20 then Lewis Structures for all
- HW:
 - Watch - [Lesson 4 - Ions](#)
 - Complete Lesson Notes

Day 5:

- Review Video - Lesson 4 - Ions
- Ions Worksheet
- Lewis Structure Worksheet - Located in the Bonus folder

Day 13:

- Ionic Polyatomic and Molecular Naming Race
- Additional Questions - Ionic, Polyatomic and Molecular Compounds
- Molecular and Ionic Compounds Worksheet 2
- HW:
 - Watch - [Lesson 8 - Chemical Reactions](#)
 - Complete Lesson Notes

Day 14:

- Review - Lesson 8 - Chemical Reactions
- Chemical Reactions Worksheet w Answers
- [Chemical Reactions Worksheet w Answers 2](#)
- HW:
 - Watch - [Lesson 9 - Balancing Chemical Reactions](#)
 - Complete Lesson Notes

Day 15:

- Chem Quiz 2 Ionic, Molecular, Equations and Balancing **NEXT DAY**
- Review - Lesson 9 - Balancing Chemical Equations
- Additional Questions - Balancing Chemical Reactions (30 min)
- Balancing Chemical Reactions Worksheet

Day 16:

- Chem Quiz 2 Ionic, Molecular, Equations and Balancing
- Additional Questions - Balancing Chemical Reactions (finish)
- Balancing Chemical Equations Worksheets 2

Day 17:

- Teach - Lesson 10 - Types of Chemical Reactions Part 1
 - Video Link - [Lesson 10 - Part 1](#) (stop at 3:52)
- Chemical Reactions Worksheet
- HW:
 - [Watch Lesson 10 - Types of Chemical Reactions Part 2](#) (start at 3:52)
 - Complete Lesson 10 Notes

Day 18:

- Review Lesson 10 - Types of Chemical Reactions Part 2
- Classifying Reactions Worksheet 2

Day 19:

- Law of Conservation of Mass Lab - Located in Labs folder
- HW:
 - Watch - [Lesson 11 - Acids and Bases](#)
 - Complete Lesson Notes

Day 6:

- Counting Atoms Worksheet - Located in Lesson 5 folder
 - If finished early, look up other, more complicated compounds, write them out and trade with a partner.

Day 7:

- Molecular Model Kits
- HW:
 - Watch - [Lesson 5 - Ionic Compounds](#)
 - Complete Lesson Notes

Day 8:

- Review Video - Lesson 5 - Ionic Compounds
- [Ionic Compounds Worksheet](#)
- HW:
 - [Ionic Compounds Worksheet](#)

Day 9:

- **QUIZ LESSON 1-6 NEXT DAY**
- Additional Questions - Ionic Compounds
 - I do these one-by-one with the class
- Ionic Compounds and Formula (worksheet)
- HW:
 - Watch - [Lesson 6 - Polyatomic Compounds](#)
 - Complete Lesson Notes

Day 10:

- **QUIZ LESSON 1-6**
- Review - Lesson 6 - Polyatomic Compounds
- Additional Questions - Polyatomic Compounds
- Ionic Compounds with Polyatomics Worksheet

Day 11:

- Ionic Compounds Naming Race
- Ionic and Polyatomic Compounds Worksheet and Answers
- HW:
 - Watch - [Lesson 7 - Molecular Compounds](#)
 - Complete Lesson Notes

Day 12:

- Review Video - Lesson 7 - Molecular Compounds
- Molecular and Ionic Compounds Worksheet 1
- Molecular and Ionic Compounds Worksheet 2

Day 20:

- Review - Lesson 11 - Acids and Bases
- pH and Neutralization Lab

Day 21:

- Finish pH and Neutralization Lab
- Test Review
 - Chemistry Review - Located in Tests and Quizzes and Review
 - Chemistry Review 2 Questions and Solutions

Day 23:

- Chemistry Test

11 Lessons

Physical and Chemical Properties and Changes

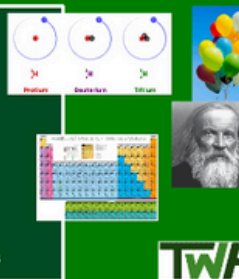
- What is Matter
- States of Matter
- Chemical vs. Physical Properties
- Qualitative vs. Quantitative Properties
- Chemical vs. Physical Change
- Energy



Google Slides and PowerPoint Versions Included
Google Classroom Ready

The Periodic Table and Bohr-Rutherford Diagrams

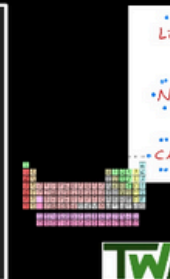
- Periodic Table History
- Elements
- Current Periodic Table
- Atomic Number
- Atomic Mass
- Isotopes
- Valence Electrons
- Periodic Table Properties
- Atomic Radius
- Electronegativity
- Bohr-Rutherford Diagrams



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

Lewis Structures

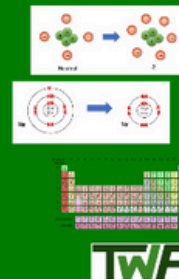
- Valence electrons
- Bohr-Rutherford Diagrams vs. Lewis Structures
- Drawing Lewis Structures
- Shortcut to drawing Lewis Structures



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Ions

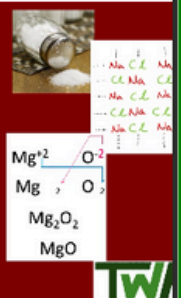
- Subatomic Particles
- Inside the Atom
- Atoms and Ions
- Knowing the Charge
- Bohr-Rutherford Ion Diagrams
- Multivalent Ions – Naming and Formula Writing
- Role of Ions



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Ionic Compounds

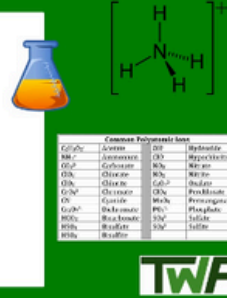
- Ions
- Ionic Compounds
- Drawing Ionic Compounds
- Examples
- Naming Ionic Compounds
- Ionic Compound Formulas
- The Criss-Cross Rule
- Multivalent Compounds
- Properties of Ionic Compounds



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Polyatomic Compounds

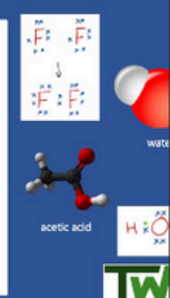
- Polyatomic compounds
- Naming
- Formulas
- Exceptions
- Multivalents



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Molecular Compounds

- Ionic compounds review
- examples
- Molecular compounds
- Electron sharing
- Single, Double, Triple bonds
- Naming compounds
- Writing formulas
- Diatomic gases



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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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Balancing Chemical Reactions

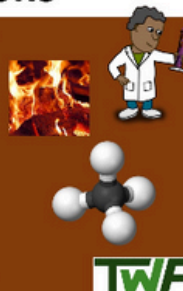
- Balancing Chemical Reactions
- Rules For Balancing
- What Not To Do
- Practice



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Types of Chemical Reactions

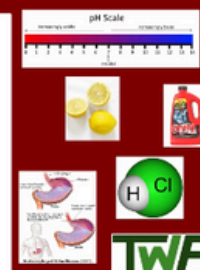
- The 5 Types of Reactions
- Synthesis Reactions
- Decomposition Reactions
- Single Displacement Reactions
- Thermite Reaction
- Double Displacement Reactions
- Combustion Reactions
- Practice



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

Acids, Bases, and Neutralization Reactions

- pH
- Acid Properties
- HCl
- Acid Precipitation
- Ocean Acidification
- Base Properties
- Neutralization Reactions
- Cleaning Up Chemical Spills
- Acid Reflux and GERD
- Indicators



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

Assessments & Activities

- 2 Unit Tests and 3 Quizzes
- 2 Digital Scavenger Hunts
- 3 Reading Comprehension Articles
- 2 Lab Station Activities
- Additional activities to engage your students

Speed Quizzing

A positively charged subatomic particle

Proton

The ____ of an element is the number of protons in the nucleus.

atomic number

A fast-moving, review activity where students quiz each other, swap cards, then move on to someone new

Chemistry Introduction Unit

Device-Based Scavenger Hunt

Physical and Chemical Changes



- Includes
- 5 Unique Locations
 - Online form submission
 - Answer Key

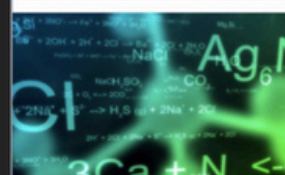
Works on all smartphones, tablets, Chromebooks and laptops

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



Molecular and Ionic Compounds

Lab Station Activity



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

Acids, Bases and Neutralization

Lab Station Activity



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

Atoms, Elements, and Compounds

Digital Interactive Notebook

Chapter 1 – Particle Theory and Classification of Matter
Chapter 2 – Atomic Theory
Chapter 3 – Atomic Structure and Notation

100% Digital and Interactive



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

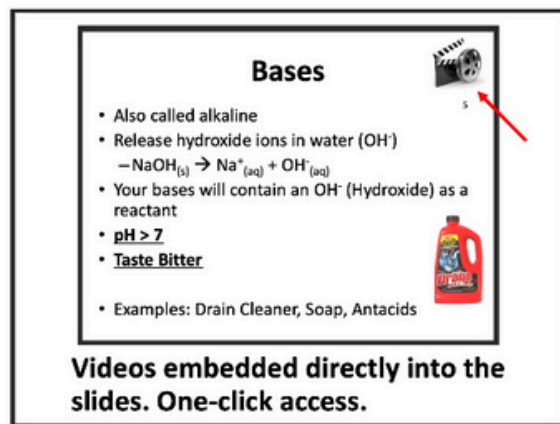
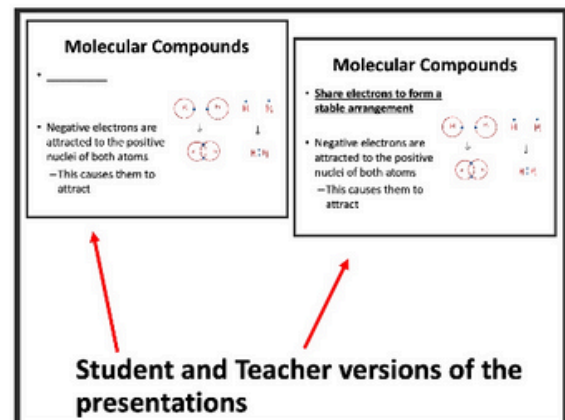
- 100% Digital
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- Videos
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- Word Scramble
- and more



Thank you for your interest

Inside the Unit

- 5 weeks of teaching material
- 11 Presentations in Google and Office versions
- Teacher and student versions for each lesson
- Many videos embedded into the slides



Office and Google Versions

- This unit includes both Office and Google formats for **ALL** resources
- The lessons are in PowerPoint and Google Slides format while all documents contain Word and Google Doc versions
- Your resource is perfect for distance learning and integrates seamlessly with Google Classroom as I've included a link that will automatically create a copy of the resources and put them directly into your Google Drive with one click

