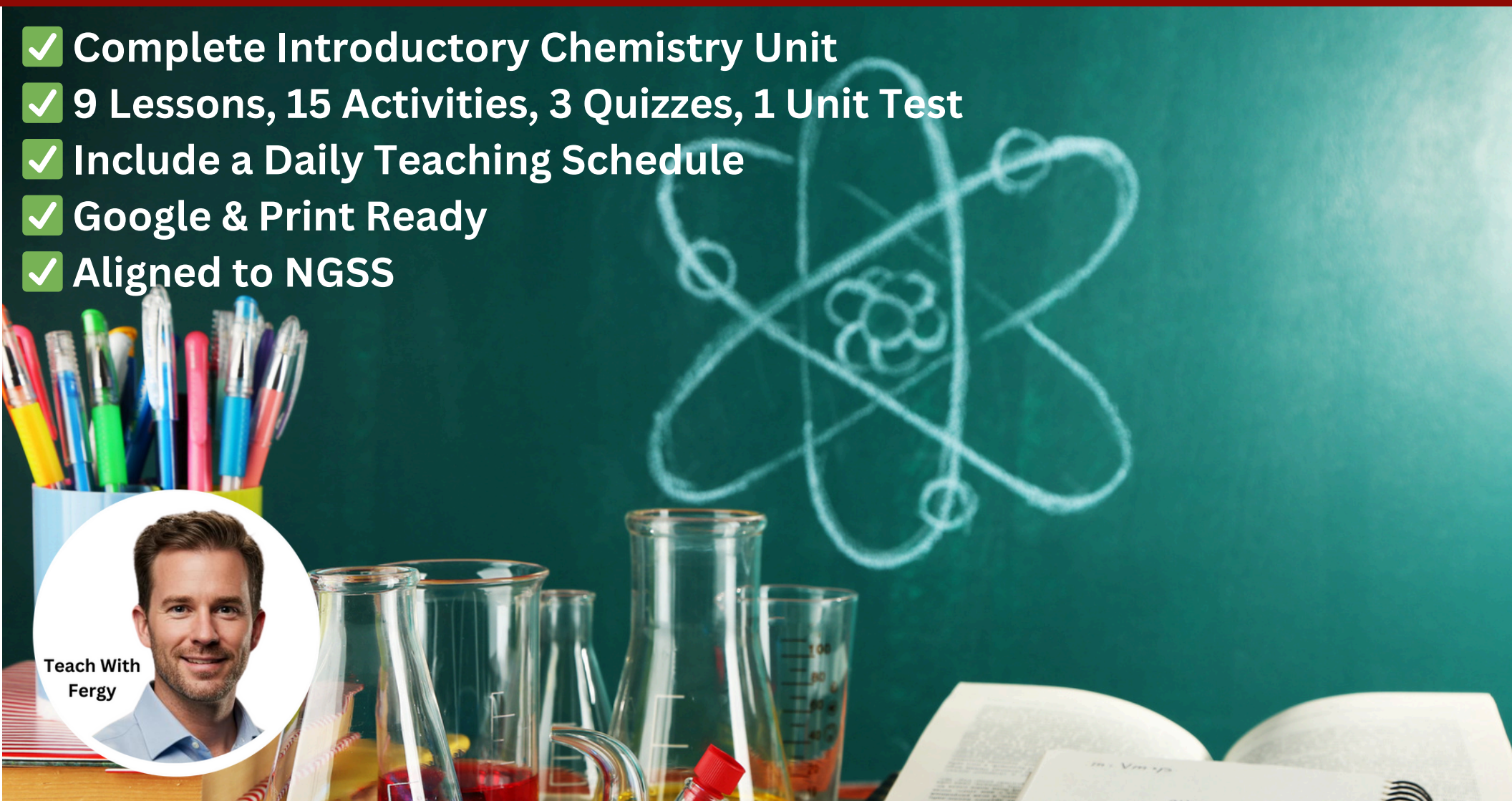


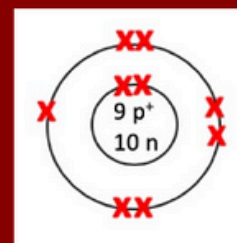
Chemistry Introduction Unit Bundle Atoms, Elements and Molecules

- ✓ Complete Introductory Chemistry Unit
- ✓ 9 Lessons, 15 Activities, 3 Quizzes, 1 Unit Test
- ✓ Include a Daily Teaching Schedule
- ✓ Google & Print Ready
- ✓ Aligned to NGSS

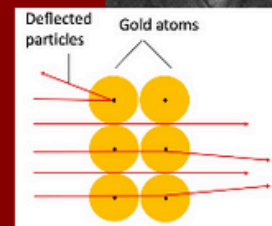
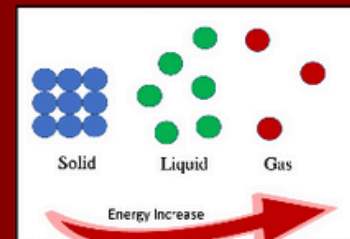


Introductory Chemistry Unit - Atoms, Elements and Compounds

- 9 Lesson
- 5 Weeks of teaching
- Videos and Simulations embedded into lessons

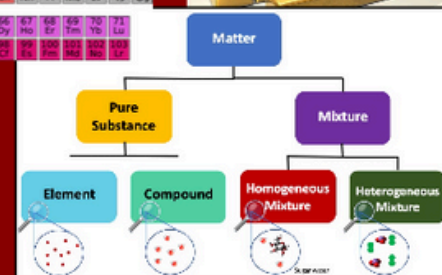


1. Physical and Chemical Properties and Changes
2. The GUESS method of problem solving
3. Density
4. Particle Theory and Classification of Matter
5. Atomic Theory - The History of the Atom
6. Atomic Structure and Notation
7. The Periodic Table
8. Ions
9. Chemical Symbols, Formulas and Compounds



The Periodic Table of the Elements

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108
109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126



**Google Slides and PowerPoint
Versions Included
Google Classroom Ready**

Daily Teaching Schedule

Chemistry Introduction 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.

Day 1:

- Review Lab Safety Lesson
- Lab Equipment Scavenger Hunt Activity
- HW:
 - Watch [Lesson 1 - Physical and Chemical Properties](#)
 - Complete Student Notes

Day 2:

- Review Lesson 1- Physical and Chemical Properties
- Watch Bill Nye Phases of Matter Video and Worksheet
- Physical and Chemical Properties Worksheet

Day 3:

- Teach Lesson 2 - The GUESS Method
- Complete Lesson Notes
 - There's no Word Document for the notes, so students need to copy it all out
- Properties of Matter Handout

Day 3:

- Physical and Chemical Properties and Change Worksheet

Day 4:

- Teach Lesson 3 - Density - first half
- Density Worksheet 1
- HW:
 - Have students watch the second half of Lesson 3
 - Students fill in remainder of Density Worksheet 2

Day 5:

- Density Quiz - 2 DAYS
- Review Lesson 3 - Density - second half
- Measuring Density Lab

Day 6:

- Density Quiz - NEXT DAY
- Density Worksheet 2 - due tomorrow

Day 7:

- Collect Density Worksheet 2
- Density Lab Station Activity - In Activities Folder

Quiz
Lesson 4 - The Particle Theory
Students fill in notes
Particle Theory of Matter worksheet

Quiz
Lesson 4 - Matter Classification and Particle Theory
Matter Classification and Particle Theory Flow chart

Story Project

Watch [Lesson 5 - Atomic Structure](#)
Complete Student Notes

Lesson 5 - Atomic Structure
The Atom Worksheet
Element Story Project

Watch [Lesson 6 - Atomic Structure](#)
Complete Student Notes

Day 17:

- Chemistry Unit Test Review

Day 18:

- Chemistry Unit Test

Day 19:

- Element Story Project
 - Completed good copy pictures
 - Audio recordings are due tomorrow

Day 20:

- Element Story Project
 - Completed integrating audio and pictures
 - Ready to present
 - Uploaded Fact Sheet Doc

Day 21:

- Element Story Project - Presentation Day

Day 11:

- Review Lesson 6 - Atomic Structure
- Subatomic Particles worksheet
- Work on - Element Story Project
- Quiz - Lesson 4-6 - NEXT DAY

Day 12:

- Quiz - Lesson 4-6
- Teach Lesson 7a - Bohr-Rutherford Diagrams
- Draw a Bohr-Rutherford diagram for the first 20 elements on the periodic table

Day 13:

- Teach Lesson 7 - Periodic Table
 - Students fill in notes and color blank periodic table
- Students are to work on the Periodic Table Worksheet and complete for HW

Day 14:

- Take up Periodic Table Worksheet
- Work on - Element Story Project
- HW:
 - Teach [Lesson 8 - Ions](#)
 - Complete Student Notes

Day 15:

- Review Lesson 8 - Ions
- Ions Worksheet and answers
- Work on - Element Story Project
- HW:
 - Watch [Lesson 9 - Chemical Symbols and Formulas](#)
 - Complete Student Notes

Day 16:

- Review Lesson 9 - Chemical Symbols and Formulas
- Building Molecules - Need molecular model kits
- Counting Atoms Worksheet (25 minutes)

Chemistry Introductory Unit

- ✓ Complete Introductory Chemistry Unit - 5 ➡ 6 weeks of teaching material
- ✓ 9 Lessons in both Word and Google form
- ✓ Teacher and student versions of each
- ✓ 3 Scavenger Hunts
- ✓ 2 Lab Station Activities
- ✓ 2 Digital Interactive Notebook Pages
- ✓ 8 Additional Activities
- ✓ 3 Quizzes and 1 Test Unit Test - Includes Answer Key



9 Complete 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



The GUESSS Method

A Method for Solving Problems



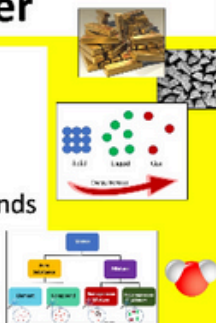
Density & Buoyancy

- Mass and Volume
- What is density?
- $D = m/V$
- Solving Density Problems
- Archimedes
- Buoyancy
- Applications
- Floating
- Oil Spills



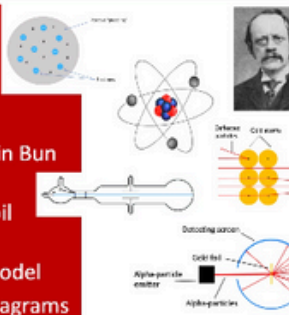
The Particle Theory of Matter

1. The 5 Particle Theory Rules
2. Matter review
3. Pure Substances
 - Elements & Compounds
4. Mixtures
 - Homogeneous & Heterogeneous



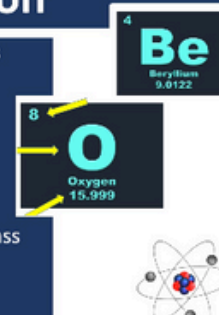
The Atomic Theory

- Atomic Theory
- Atom Size
- Democritus
- Dalton – Ball Model
- J.J. Thompson – Raisin Bun Model
- Rutherford – Gold Foil Experiment
- Bohr – Rutherford Model
- Bohr – Rutherford Diagrams



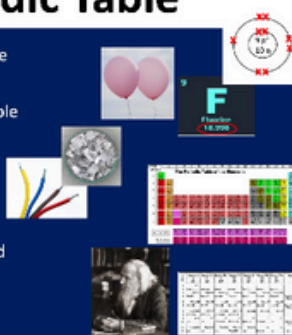
Atomic Structure and Notation

- Atoms and subatomic particles
 - Protons, Neutrons, and Electrons
- Atomic Number
- Atomic Mass
- Isotopes
- Calculating Average Atomic Mass
- Periodic Table Notation
- Chemical Symbol



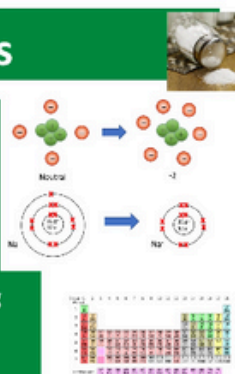
Periodic Table

- Before the Periodic Table
- Mendelée
- The Current Periodic Table
- The Elements
- Atomic Number
- Atomic Mass
- Valence Electrons
- Metals, Non-Metals, and Metalloids
- Columns and Families
- Rows and Periods



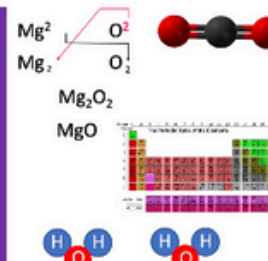
Ions

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



Chemical Symbols, Formulas & Compounds

- Symbols
- Element Names
- Counting Atoms
- Naming Compounds
- Combining Capacity
- Building a Molecule
- Criss-Cross Rule
- Naming Compounds



Lessons

Inside the Unit

- 5 weeks of teaching material
- 9 Power Points totalling 210 slides
- Teacher and student versions for each lesson
- Many videos and simulations embedded into the slides
- Student notes in word
- Three Bill Nye The Science Guy worksheets with direct video links

What is Density?

- It is a measure of how close the particles in a substance are.
- It is a measure of how much mass there is in a specific amount of space.
- Which container is more dense?
— Explain your answer.

Teacher and Student Versions of the presentation

Energy

Energy is not matter; it has no mass and takes up no volume.

It is the ability to do work, and comes in many different forms, including:

- Heat
- Mechanical – motion, position
- Electrical
- Sound
- Chemical
- Nuclear
- Electromagnetic

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

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**



**Google Classroom Ready
One-Click Google Slides Access**

Bell Ringers Class Warm-Ups, WebQuest, and Activities

CHEMISTRY Bell Ringers, Class Warm-Ups, and Exit Tickets



Video
Watch the following video clip and summarize the main points in 2-3 sentences. Emphasize main ideas expressed in video.

Three Types Of Activities

1. Bell Ringer Questions / Exit Tickets to assess your students' understanding
2. Topic-specific, engaging videos to demonstrate applicability and relevance
3. Inspiring and insightful quotes to encourage discussion

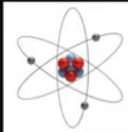
Device-Based Scavenger Hunt Atoms: Atomic Theory and Structure

Includes

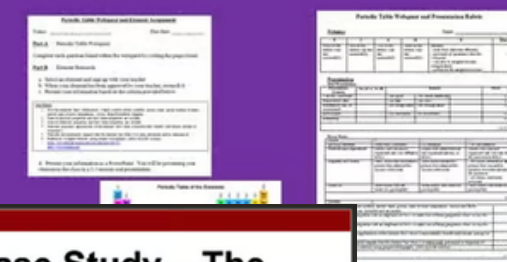
- 5 Unique Locations
- Online form submission
- Answer Key

Works on all smartphones, tablets, Chromebooks and laptops

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



Periodic Table WebQuest & Element Assignment



Case Study – The Chemistry of Fireworks

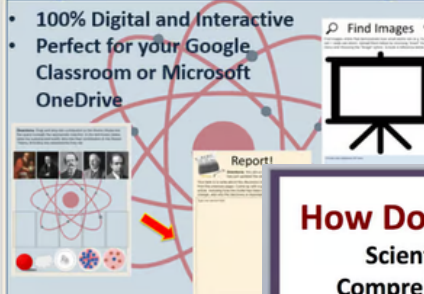


TWF

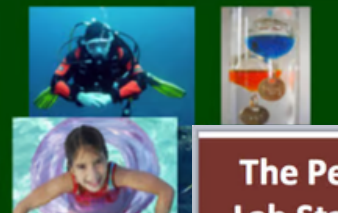
Chapter 2: Atomic Theory and Model

Digital Interactive Notebook Pages

- 100% Digital and Interactive
- Perfect for your Google Classroom or Microsoft OneDrive

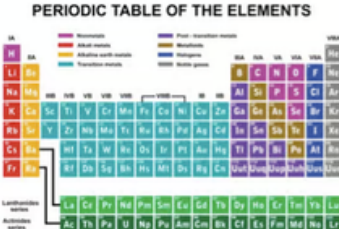


Density and Buoyancy Lab Station Activity



The Periodic Table Lab Station Activity

PERIODIC TABLE OF THE ELEMENTS



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

How Do Ships Float?

Scientific Reading Comprehension Article



Improve your students Scientific Literacy and Analysis Skills, use as an Emergency Substitute Plan or create Applicability in your classroom

Element Story Project

Task:

1. The student will research a specific element and create a story about it.
2. The student will create a story about the element's properties and uses.
3. The student will create a story about the element's discovery and history.
4. The student will create a story about the element's role in the world.
5. The student will create a story about the element's future.

Essential Questions:

1. How does the periodic table help us understand the world?
2. How does the periodic table help us understand the world?
3. How does the periodic table help us understand the world?
4. How does the periodic table help us understand the world?
5. How does the periodic table help us understand the world?

Exit Ticket:

1. The student will create a story about the element's properties and uses.
2. The student will create a story about the element's discovery and history.
3. The student will create a story about the element's role in the world.
4. The student will create a story about the element's future.
5. The student will create a story about the element's properties and uses.

Formative Assessment:

1. The student will create a story about the element's properties and uses.
2. The student will create a story about the element's discovery and history.
3. The student will create a story about the element's role in the world.
4. The student will create a story about the element's future.
5. The student will create a story about the element's properties and uses.

Element Story Project

Get away from tired practices and unengaged students



Provide a Scientifically-Proven means of instruction



Incorporate Technology and Increase Collaboration



click here
to START