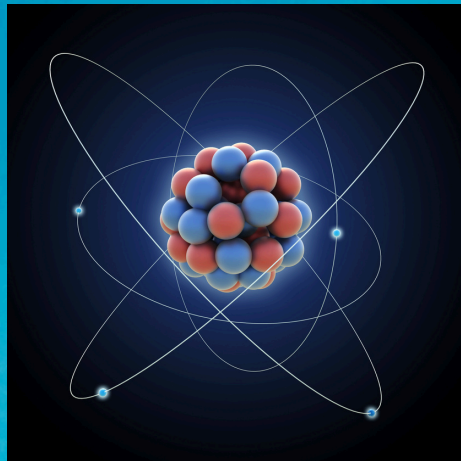


Matter and its Properties Unit

- Covers: Physical & Chemical Properties, States of Matter, and Density
- Lesson & Engaging Activities
- Daily Teaching Schedule



Matter and its Properties

Includes:

- 3 Lessons
- 8 Activities

Topic - States of Matter:

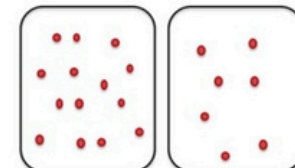
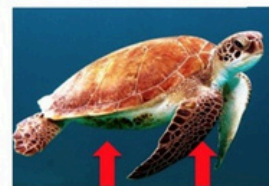
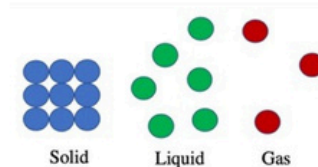
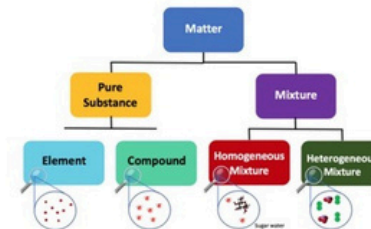
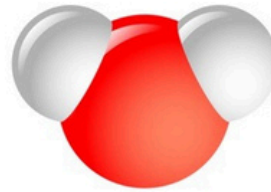
- The 5 Particle Theory Rules
- Matter and States of Matter
- Pure Substances, Elements, & Compounds
- Mixtures - Homogeneous & Heterogeneous

Topic - Physical and Chemical Properties and Changes:

- Physical & Chemical Properties
- Quantitative vs. Qualitative Properties
- Physical & Chemical Changes
- Energy

Topic - Density:

- Mass and Volume
- What is density and $d = m/V$
- Solving Density Problems
- Archimedes and Buoyancy



Lesson Includes Teacher and Student Versions - Videos Embedded in Lessons

The Particle Theory of Matter

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



Google Slides and PowerPoint Versions Included
Google Classroom Ready

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 Particle Theory – Rule #5

- This movement is called heat or heat energy
- Temperature is a measurement of the speed of the particles. Higher temperature = more speed

The Particle Theory – Rule #5

- The more energy particles have, the faster they move and the higher their temperature
- This movement is called heat or heat energy
- Temperature is a measurement of the speed of the particles. Higher temperature = more speed



Teacher and Student Versions of the presentation

Density & Buoyancy

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



Google Slides and PowerPoint Versions Included
Google Classroom Ready

Terms

- Negatively Buoyant – Will Sink
- Positively Buoyant – Will Float
- Neutrally Buoyant – Will neither sink nor float, but will hang out in the middle (like a fish)



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

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Engaging Activities

Mass, Volume, Density, and Buoyancy




7 Lab Station Activities to get your seats and engaged in their

Device-Based Scavenger Mass, Volume, Density, and Buoyancy



Includes

- 5 Unique Locations
- Online form submission
- Answer Key

Works on all smartphones, tablets, Chromebooks, and more

- 100% Digital
- Simulations
- Quizzes



Physical and Chemical Properties Word Search and Scramble

THREE Activities in One!

1. Basic 25-Term Word Search
2. Scrambled Words Word Search
3. Word Scramble and Define A



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Particle Theory of Matter Word Search and Scramble

- THREE Activities in One!
1. Basic 25-Term Word Search
 2. Scrambled Words Word Search
 3. Word Scramble and Define Activity

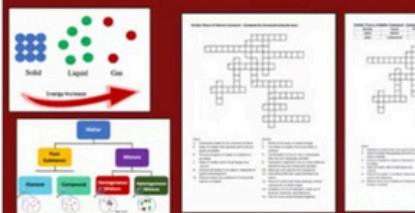


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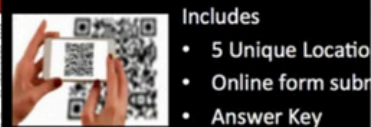


Particle Theory of Matter Crossword Puzzle

- 15 - Term Crossword
- Includes 2 Versions
 - Version 1 - No Word Bank
 - Version 2 - Includes a Word Bank



Device-Based Scavenger Hunt Physical and Chemical Changes



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

Works on all smartphones, tablets, Chromebooks, and more

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



Physical and Chemical Properties & Changes Lab Station Activity



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

The Particle Theory and the Classification of Matter Lab Station Activity



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

Daily Teaching Schedule

UNIT – Matter and Its Properties **14 DAYS TOTAL**

States of Matter – 5 days			
Number of Day(s)	Course Content	Teaching Resources	NGSS
2	• The 5 Particle Theory Rules • Matter review • Pure Substances • Elements & Compounds • Mixtures - Homogeneous & Heterogeneous	Particle Theory and Classification of Matter - Lesson	HS-PS1-1 HS-PS1-2 HS-PS1-3 HS-PS1-7
1	Hands-on review activity	The Particle Theory and the Classification of Matter - Lab Station Activity	
1	Review activity	Particle Theory of Matter - Crossword Puzzle Activity	
1	Review activity	Particle Theory of Matter Word Search and Scramble Activity	
Assessment(s)	There are multiple assessments included throughout this unit portion.		

Physical and Chemical Properties and Changes – 5 days			
Number of Day(s)	Course Content	Teaching Resources	NGSS
2	• Matter • States of Matter • Physical & Chemical Properties • Quantitative vs. Qualitative Properties • Physical & Chemical Changes • Energy	Physical and Chemical Properties and Changes - Lesson	HS-PS1-1 HS-PS1-2 HS-PS1-3 HS-PS1-4 HS-PS1-5 HS-PS3-1 HS-PS3-2
1	Hands-on review activity	Physical and Chemical Properties & Changes - Lab Station Activity	
1	Review activity	Physical and Chemical Changes – Digital Scavenger Hunt Activity	
1	Review activity	Physical and Chemical Properties Word Search and Scramble Activity	
Assessment(s)	There are multiple assessments included throughout this unit portion.		

Density – 4 days			
Number of Day(s)	Course Content	Teaching Resources	NGSS
2	• Mass and Volume • What is density? • $d = m/V$ • Solving Density Problems • Archimedes • Buoyancy • Applications	Density and Buoyancy - Lesson	HS-PS1-2 HS-PS1-3 HS-PS1-7 HS-PS2-6
1	Hands-on review activity	Mass, Volume, Density, and Buoyancy – Digital Scavenger Hunt Activity	
1	Hands-on review activity	Mass, Volume, Density, & Buoyancy - Lab Station Activity	
Assessment(s)	There are multiple assessments included throughout this unit. UNIT TEST		

The Following Resources are Included

States of Matter:

- [Particle Theory and Classification of Matter - Lesson](#)
- [The Particle Theory and the Classification of Matter - Lab Station Activity](#)
- [Particle Theory of Matter - Crossword Puzzle Activity](#)
- [Particle Theory of Matter Word Search and Scramble Activity](#)

Physical and Chemical Properties and Changes:

- [Physical and Chemical Properties and Changes - Lesson](#)
- [Physical and Chemical Properties & Changes - Lab Station Activity](#)
- [Physical and Chemical Changes – Digital Scavenger Hunt Activity](#)
- [Physical and Chemical Properties Word Search and Scramble Activity](#)

Density:

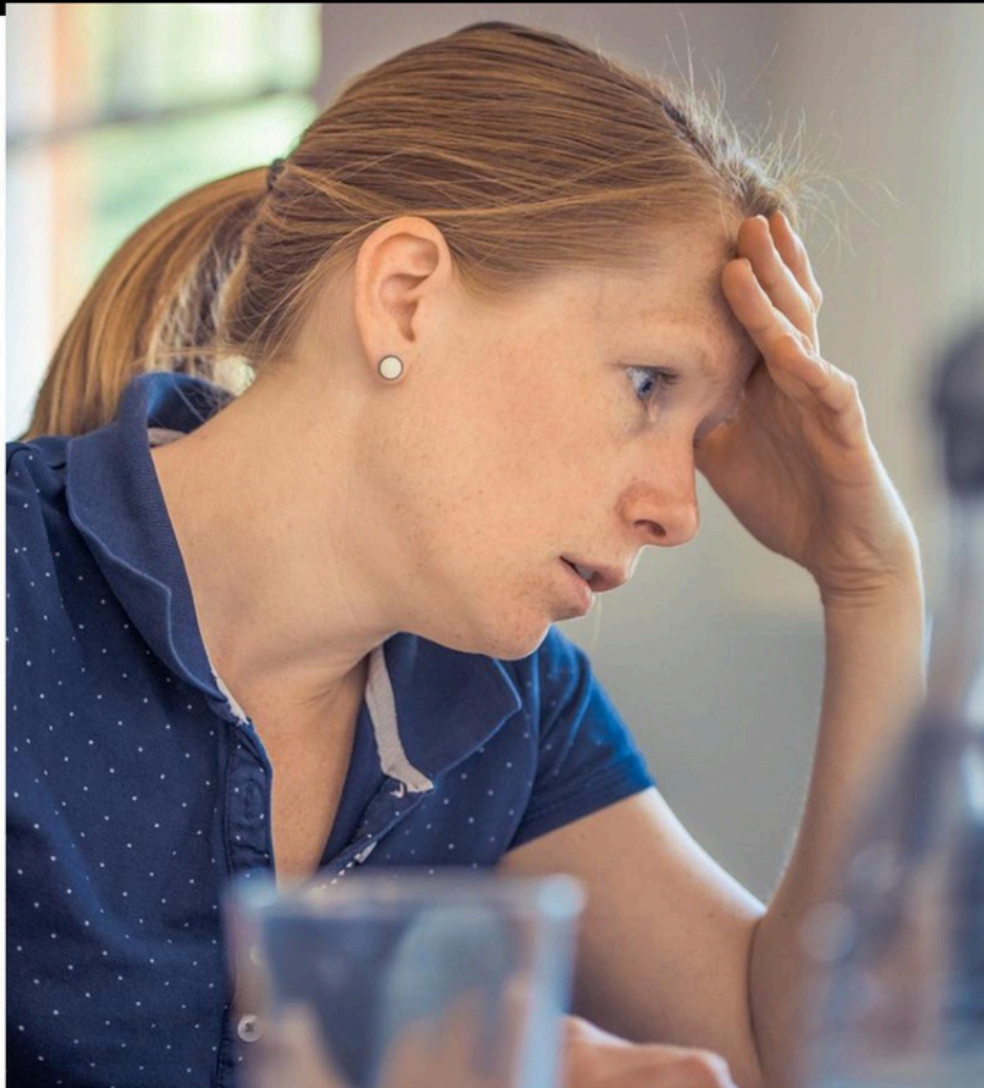
- [Density and Buoyancy - Lesson](#)
- [Mass, Volume, Density, and Buoyancy – Digital Scavenger Hunt Activity](#)
- [Mass, Volume, Density, & Buoyancy - Lab Station Activity](#)

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

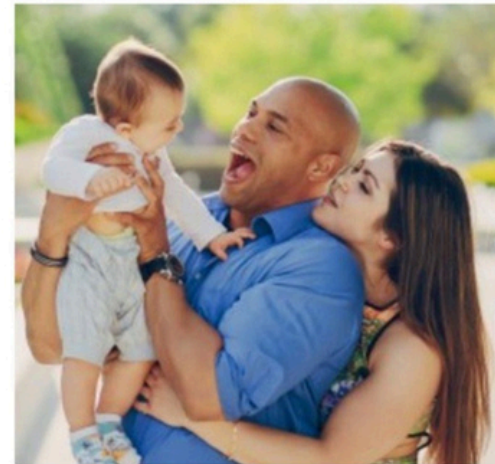


Save yourself the **STRESS AND TIME**



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Spend your time WISELY



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