

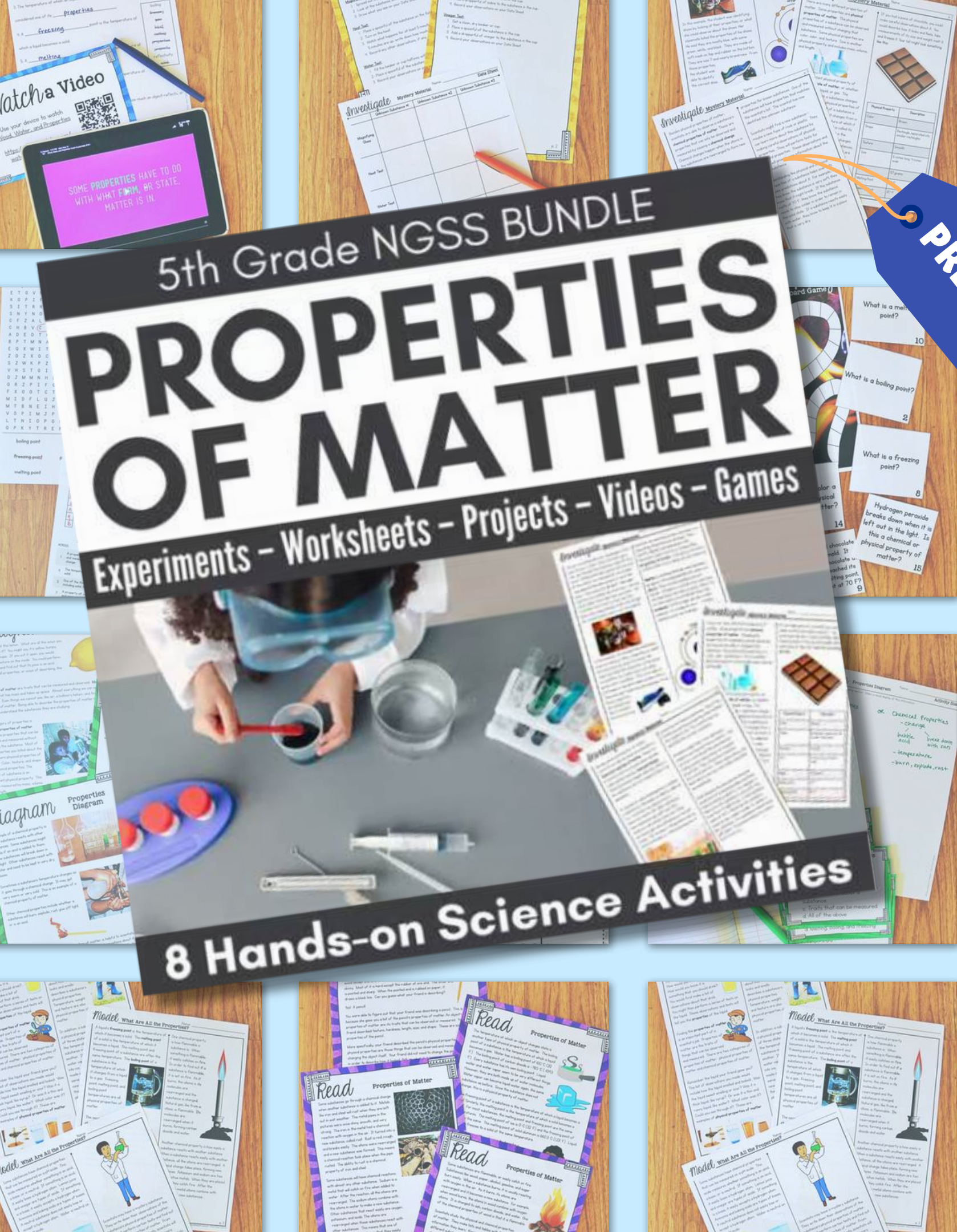
5TH
GRADE

Get Students Thinking Like
Real Scientists!

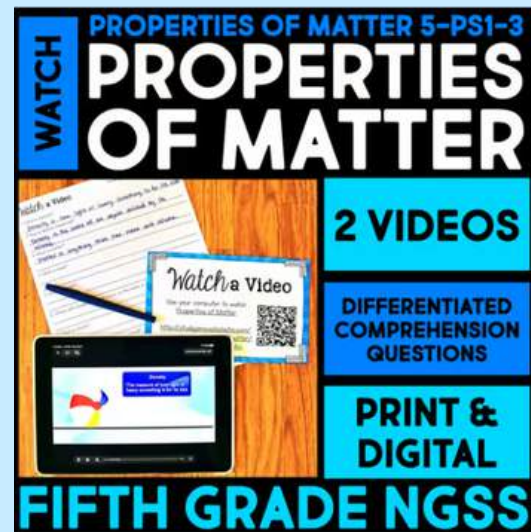
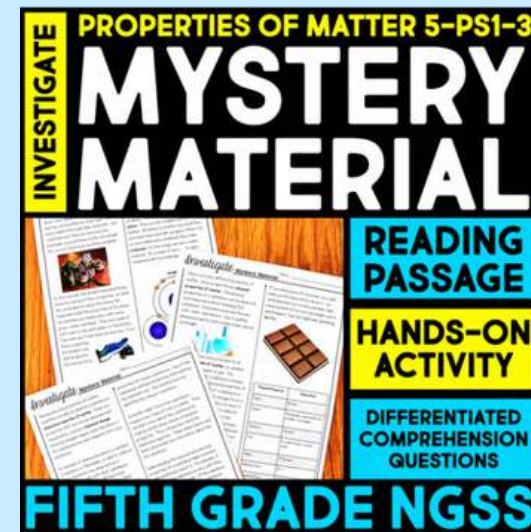
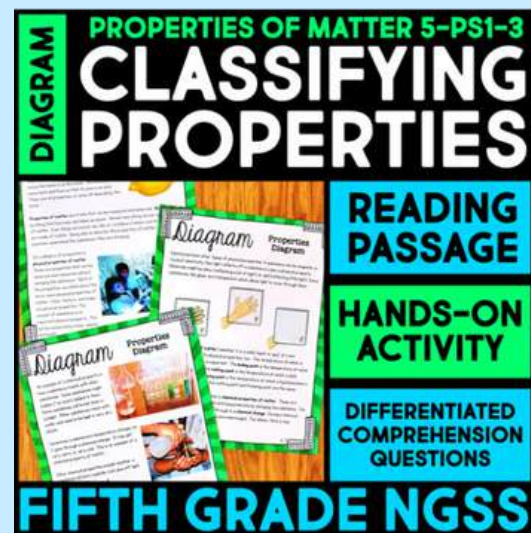
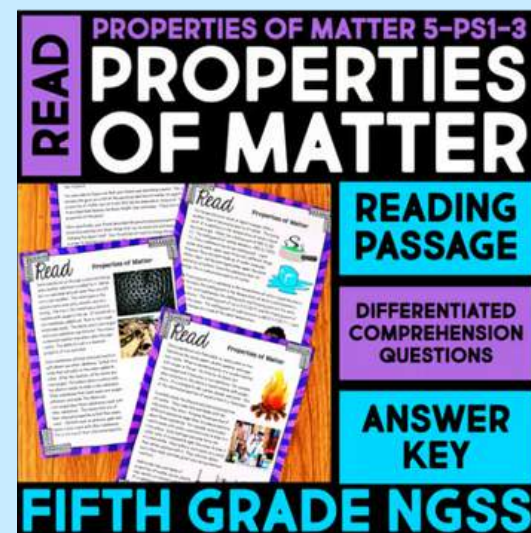
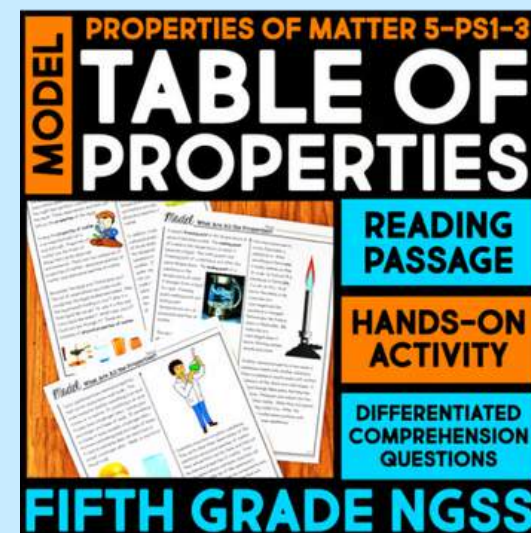
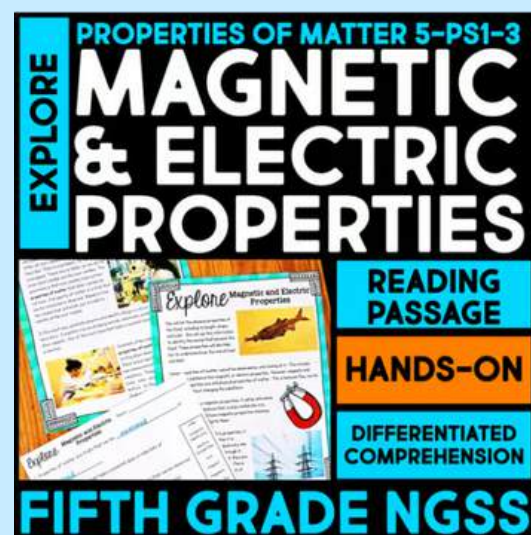
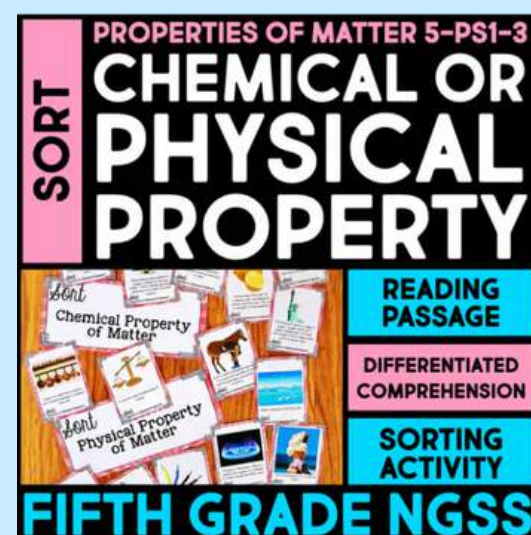
PREVIEW

PROPERTIES OF MATTER BUNDLE

KEEP SCROLLING TO SEE
WHAT'S INSIDE!



WHAT'S INCLUDED IN THE BUNDLE?



- ✓ 8 Science Stations aligned with the NGSS for 5th grade
- ✓ 6 Reading passages
- ✓ Hands-on activities
- ✓ Differentiated comprehension questions
- ✓ Digital Videos & Video Games
- ✓ Digital Google Slides & Forms

ADD TO CART



6 READING PASSAGE



6 Reading Passages that provide
all scientific background
knowledge for each station

Available in two
formats + Digital

Includes pictures and
visuals

PAGE OVERVIEW

5th Grade NGSS BUNDLE

PROPERTIES OF MATTER

Experiments – Worksheets – Projects – Videos – Games



8 Hands-on Science Activities

ADD TO CART



Properties of Matter Unit BUNDLE

Station & Name	Standards	Objective
Big Idea Posters & Vocabulary Cards (included with the BUNDLE)		
Watch	Properties of Matter / Wood, Water, and Properties 5-PSI-3, (ELA) SL42	Students will watch a video about Properties of Matter or atoms and molecules. They will answer questions in order to reinforce what they have learned.
Play	Properties of Matter: A Board Game / A Crossword and Word Search 5-PSI-3, (ELA) RI51, RFS4, WS2, WS8	Students will play a game or complete a crossword puzzle/word search in order to reinforce what they have learned about matter.
Investigate	Mystery Material 5-PSI-3, 5-PSI-4, (ELA) RI51, RFS4, WS2, WS8	Students will read about properties of matter. They will conduct an investigation to identify a substance based on the observed properties of matter. They will answer questions in order to reinforce what they have learned.
Diagram	Properties Diagram 5-PSI-3, (ELA) RI51, RI52, RI54, RI57, RFS4, WS2, WS8	Students will read about the properties of matter. They will create their own diagram of physical properties based on the reading section. Students will then answer questions in order to reinforce what they have learned.
Read	Properties of Matter 5-PSI-1, 5-PSI-3, 5-PSI-4, (ELA) RI51, RI52, RI54, RI57, RFS4, WS2, WS8	Students will read about properties of matter. They will answer questions in order to reinforce what they have learned.
Model	What are the Properties? 5-PSI-4, 5-PSI-3, 5-PSI-4, (ELA) RI51, RI52, RI54, RI57, RFS4, WS2, WS8	Students will read about properties of matter. They will create a table of properties of matter and then model how it is used. They will answer questions in order to reinforce what they have learned.
Explore	Magnetic and Electric Properties 5-PSI-4, 5-PSI-3, 5-PSI-4, (ELA) RI51, RI52, RI53, RI54, RI55, RI58, RFS4, WS2, WS3, WS8	Students will read about magnetic and electric properties of matter. They will answer questions in order to reinforce what they have learned.
Sort	Physical or Chemical Property? 5-PSI-4, 5-PSI-3, 5-PSI-4, (ELA) RI51, RI52, RI54, RI57, RFS4, WS2, WS8	Students will read about properties of matter. They will sort materials into two categories. They will then answer questions in order to reinforce what they have learned.

Properties of Matter Science Stations

NGSS Standards Overview 5-PSI-3

Next Generation Science Standards are written to be "Three Dimensional." The following section explains how this set of science stations addresses the three dimensions of Performance Expectation, Disciplinary Core Idea, and Science and Engineering Practices/Crosscutting Concepts.

In Fifth Grade, students are expected to demonstrate understanding in the following area:

5-PSI-3. Make observations and measurements to identify materials based on their properties. [Clarification Statement: Examples of materials to be identified could include baking soda and other powders, metals, minerals, and liquids. Examples of properties could include color, hardness, reflectivity, electrical conductivity, thermal conductivity, response to magnetic forces, and solubility; density is not intended as an identifiable property.] [Assessment Boundary: Assessment does not include density or distinguishing mass and weight.]

This correlates with the DCIs 5-PS1A, which state:

PS1A: Structure and Properties of Matter

Measurements of a variety of properties can be used to identify materials. (Boundary: At this grade level, mass and weight are not distinguished, and no attempt is made to define the unseen particles or explain the atomic-scale mechanism of evaporation and condensation.)

All stations in this set meet the DCI, helping students to identify materials based on their chemical and physical properties of matter.

Science and Engineering Practices

Planning and Carrying Out Investigations

Planning and carrying out investigations to answer questions or test solutions to problems in 3-5 builds on K-2 experiences and progresses to include investigations that control variables and provide evidence to support explanations or design solutions.

• Make observations and measurements to produce data to serve as the basis for evidence for an explanation of a phenomenon.

Crosscutting Concepts

Scale, Proportion, and Quantity

• Standard units are used to measure and describe physical quantities such as weight, time, temperature, and volume.

Science Stations Overview

This is a general overview of all science stations in each UNIT BUNDLE.

Watch a Video

At this station, students will watch a video relevant to the topic and answer questions. You have the option of using the included worksheet with the questions or using the task cards and having students respond in their science journals.

Play a Video Game

Students play a game and answer questions about the experience. You have the option of using the included worksheet with the questions or using the task cards and having students respond in their science journals.

Investigate

Students use materials to investigate the science topic by following directions and recording results. Students answer questions about the investigation.

Draw a Diagram

Students draw and label a diagram specific to certain requirements. Students then explain how their diagram meets the requirements.

Read a Passage

Students read a short passage about the topic and answer questions about the information in the passage. You have the option of using the included worksheet with the questions or using the task cards and having students respond in their science journals.

Create a Model

Students use materials to illustrate the science concept and answer questions. You have the option of using the included worksheet with the questions or using the task cards and having students respond in their science journals.

Explore

Students create a sample and manipulate it using the new science concepts they have learned. Students answer questions based on the effects.

Sort

Students sort cards into groups or put them in a specific order. Students record the sort and then describe their reasoning.

Materials Checklist Properties of Matter Unit BUNDLE

The following checklist is for the FULL UNIT BUNDLE.

Watch a Video

- ☐ Computer / Device
- ☐ Student Direction Card
- ☐ Response Sheet or Task Cards
- ☐ Science Journal (optional)

Play a Game

- ☐ Student Direction Card
- ☐ Board Game (die & game pieces)
- ☐ Word Search or Crossword Puzzle
- ☐ Response Sheet or Task Cards
- ☐ Science Journal (optional)

Investigate

- ☐ Reading Passage (optional)
- ☐ Student Direction Card
- ☐ Investigate Worksheet
- ☐ Response Sheet or Task Cards
- ☐ Science Journal (optional)
- ☐ Beakers or cups—about 250 mL, size
- ☐ Spoons
- ☐ Magnifying glass
- ☐ Hot plate
- ☐ Foil pan
- ☐ Water
- ☐ Iodine with dropper
- ☐ Vinegar with dropper
- ☐ Caps or bowls labeled "Unknown Substance #1," "Unknown Substance #2," and "Unknown Substance #3"
- ☐ Choice of three of these five substances: Sugar, salt, plaster of paris, baking soda, cornstarch.

Draw a Diagram

- ☐ Reading Passage (optional)
- ☐ Student Direction Card
- ☐ Diagram Worksheet
- ☐ Response Sheet or Task Cards
- ☐ Science Journal (optional)
- ☐ Device
- ☐ Colored pencils and/or markers
- ☐ Optional: Scissors and magazines to cut pictures from
- ☐ Glue

Read a Passage

- ☐ Reading Passage
- ☐ Response Sheet or Task Cards
- ☐ Science Journal (optional)

Create a Model

- ☐ Reading Passage (optional)
- ☐ Student Direction Card
- ☐ Model Worksheet
- ☐ Response Sheet or Task Cards
- ☐ Science Journal (optional)
- ☐ 16 Medium cups or beakers
- ☐ Water
- ☐ Baking soda
- ☐ Water + 2 Teaspoon lemon juice
- ☐ Coconut water
- ☐ White vinegar
- ☐ Salt
- ☐ Colorless Sports drink (like Gatorade or PowerAde)
- ☐ Thermometer (needs to be able to keep the bulb off the thermometer off the bottom of the beaker) [Amazon link](#)
- ☐ Hot plate
- ☐ Oven mitt
- ☐ Universal pH paper ([Amazon link](#))

Explore

- ☐ Reading Passage (optional)
- ☐ Student Direction Card
- ☐ Explore Worksheet
- ☐ Response Sheet or Task Cards
- ☐ Tray
- ☐ Christmas or twinkle lights (see Teacher Instructions for instructions on how to separate them)
- ☐ Magnet (a good quality laboratory magnet)
- ☐ D battery
- ☐ Tape (Scotch tape is fine)
- ☐ Paper clip
- ☐ Lemon
- ☐ Toothpick
- ☐ Cup of very salty water
- ☐ Cup of bottled water (as pure as possible, not mineral water)
- ☐ Penny
- ☐ Colored pencils

Sort

- ☐ Reading Passage (optional)
- ☐ Student Direction Card
- ☐ Larger Sort Cards or Worksheet
- ☐ Scissors
- ☐ Glue
- ☐ Response Sheet or Task Cards
- ☐ Science Journal (optional)

Table of Contents

Science Station Overview

Materials Checklist

Science Stations

BIG IDEA POSTERS

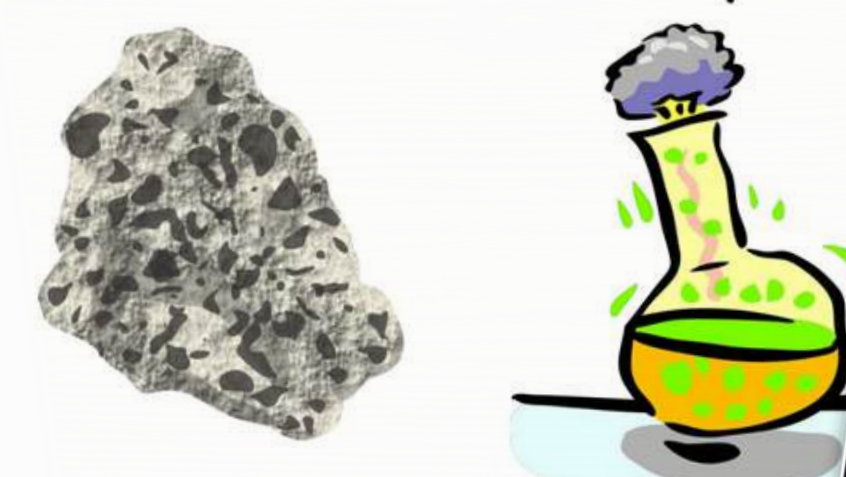
Three important temperatures help define a substance's

freezing point melting point boiling point



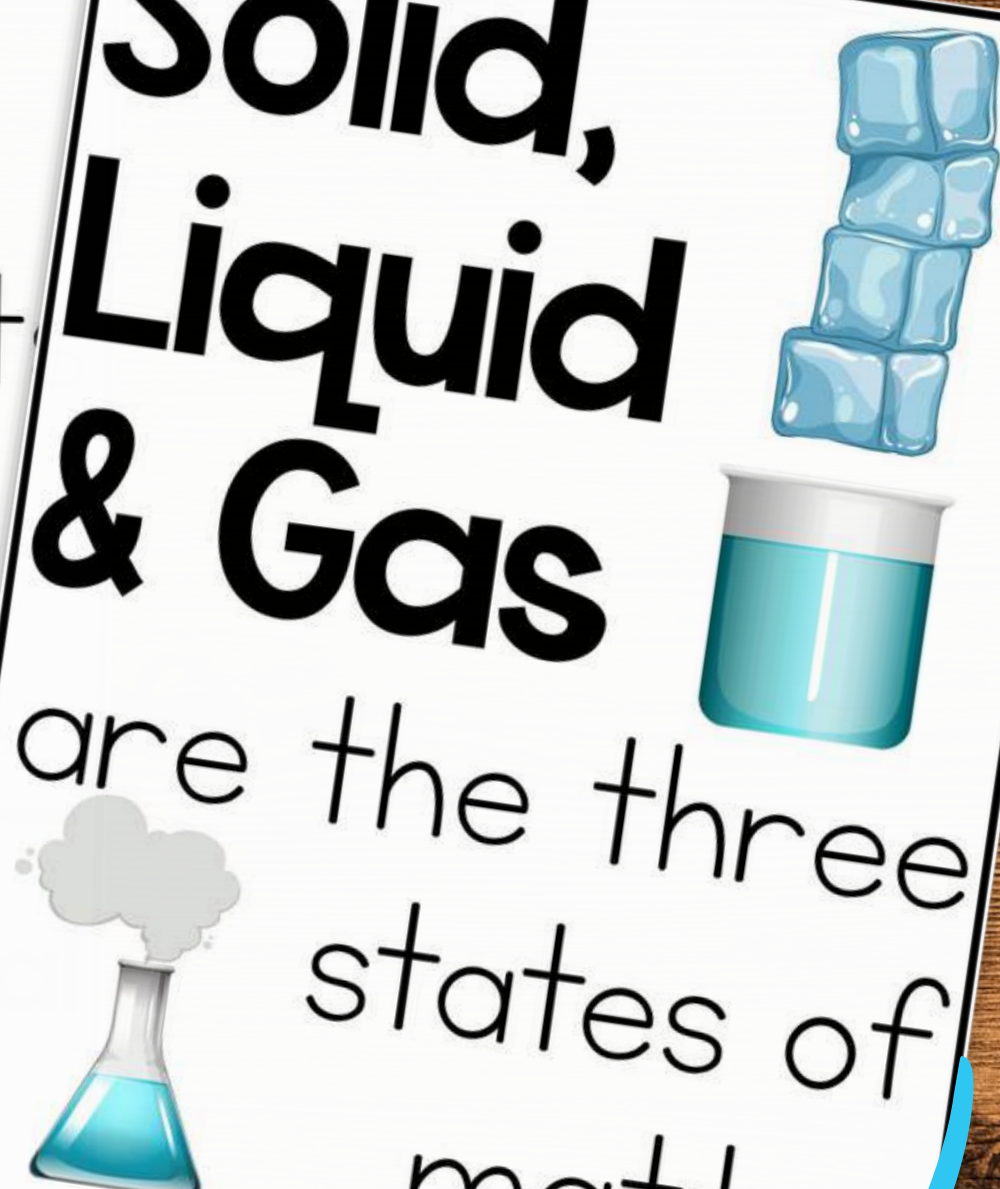
physical properties

A substance can be identified by its



physical & chemical properties of matter.

Solid, Liquid & Gas



are the three states of matter

BIG IDEA POSTERS THAT EXPLAIN THE KEY CONCEPTS.

**chemical
change**

**chemical property
of matter**

freezing point

when atoms in substances
are rearranged to form
new substances

A property of matter that can
be observed and measured only
by causing a chemical change.

**VOCABULARY CARDS
WITHOUT PICTURE**



one of the
forms that
matter can
take, including
solid, liquid,
and gas

**state of
matter**



melting point

tem
at
solid becomes
a li



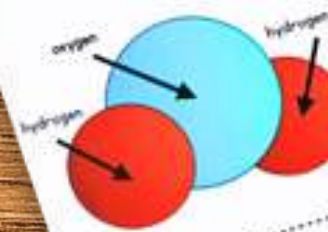
**property of
matter**

a trait
can
obs
m



freezing point

the
temperature
at which a
liquid becomes
a s



molecule

two c
atoms c
witho
atoms
joined to



**physical property
of matter**

a property of
matter that can
be observed and
measured
without changing
the substance

**VOCABULARY CARDS
WITH PICTURE**

WATCH STATION

STUDENTS WATCH ENGAGING VIDEOS ABOUT PROPERTIES OF MATTER AND ANSWER QUESTIONS TO DEEPEN UNDERSTANDING.



“ This was a great resource during school closures last year. ”
- Teacher4lyfe



PLAY STATION

BOARD GAME, CROSSWORD, AND WORD SEARCH REVIEW ACTIVITIES

“Great resource for
science
engagement and
easy to use!”
- Julie D.



INVESTIGATE STATION

**STUDENTS ACT LIKE SCIENTISTS BY
INVESTIGATING PROPERTIES TO
IDENTIFY AN UNKNOWN
SUBSTANCE.**

Great resource for my
“5th grade classroom.
Students seemed to
really enjoy.”
- Stacy B.

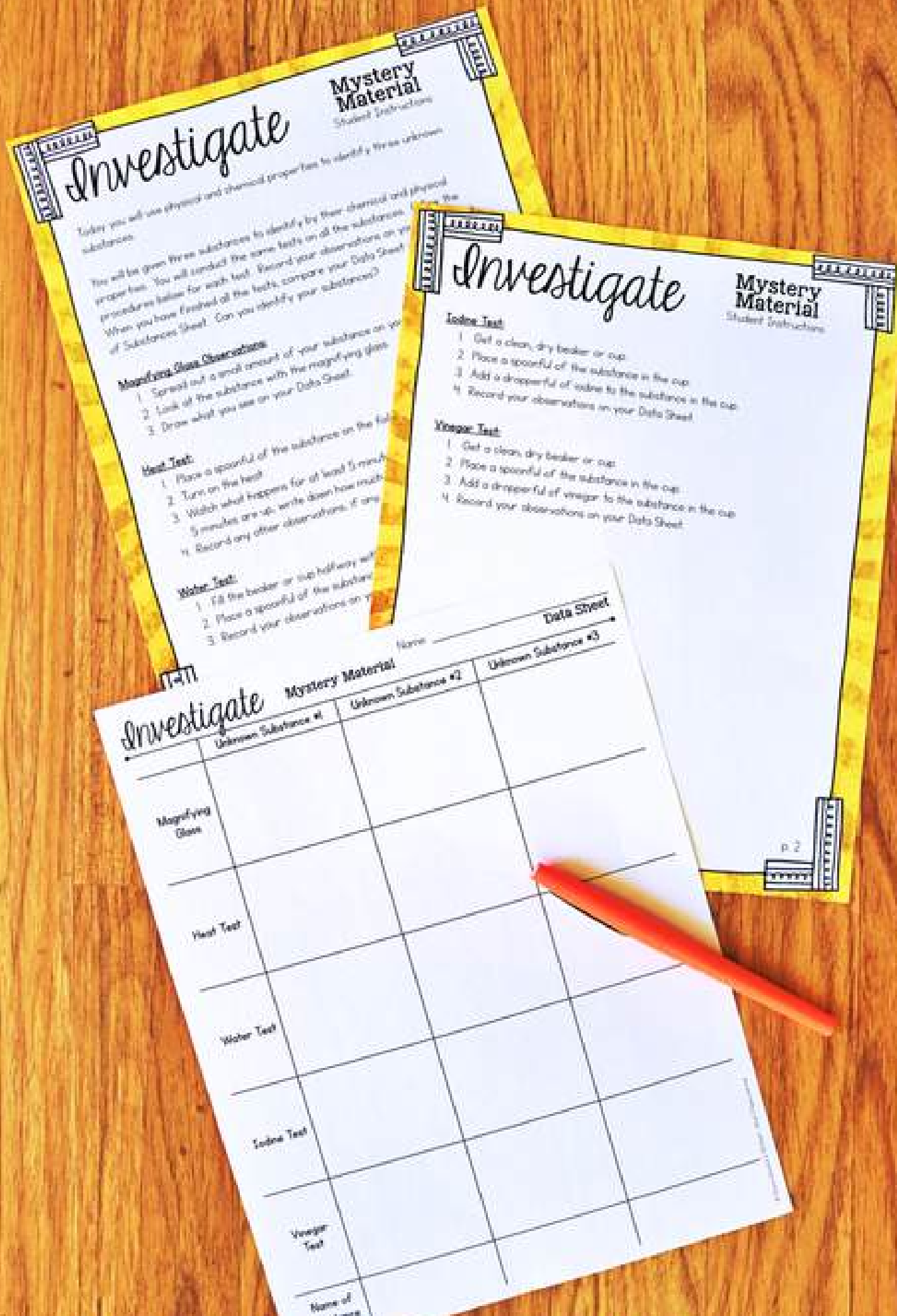
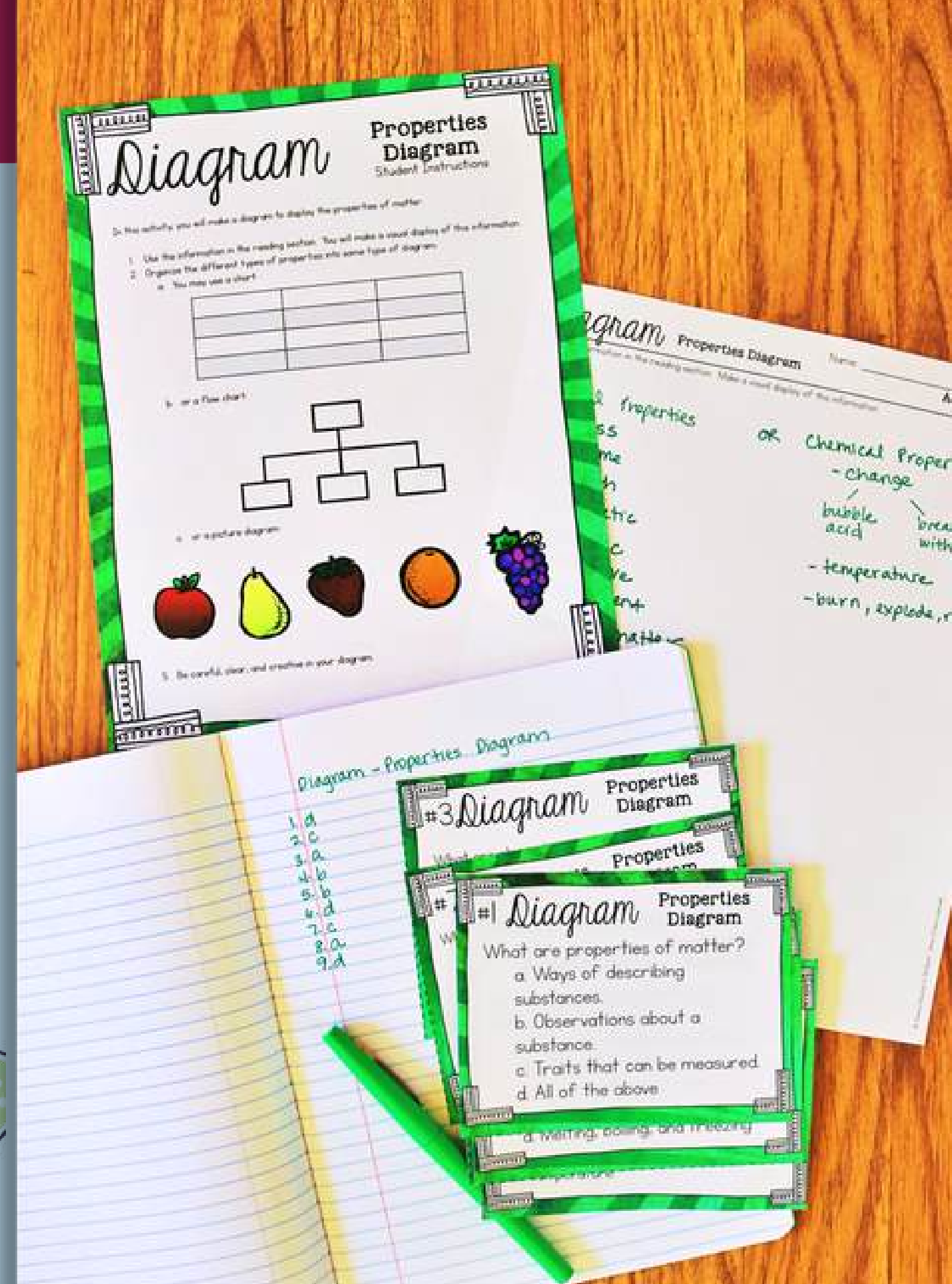


DIAGRAM STATION

STUDENTS CREATE THEIR OWN VISUAL DIAGRAM OF PHYSICAL PROPERTIES TO STRENGTHEN CONCEPTUAL UNDERSTANDING.

“ This is a very useful resource. The students liked it too. ”
- Lee E.



READ STATION

READING PASSAGES WITH COMPREHENSION QUESTIONS

This was great test
prep and review
for my 5th
graders.
- Jennifer R.



MODEL STATION

**STUDENTS ORGANIZE AND MODEL
DATA USING A TABLE TO
UNDERSTAND HOW SCIENTISTS
CLASSIFY MATTER**

“Great resource for my
5th grade classroom.
Students seemed to
really enjoy.”
- Stacy B.

Model What Are All the Properties?
Student Instructions

Part 1

- Look at your cup of Mystery Liquid. Write the name of the Mystery Liquid on your Observation Sheet (Mystery Liquid A, B, C, etc.).
- Observe your liquid and answer the first three questions.
- To find the boiling point:**
 - Pour 25 mL of your liquid into a beaker.
 - Place your thermometer into the beaker.
 - Turn on the hot plate and watch the thermometer as the temperature rises.
 - As soon as the liquid begins to boil with big bubbles forming look at the thermometer. This is the boiling point.
- To see if there is a solid that was left after boiling:**
 - Continue to let your liquid boil in the beaker.
 - Wait until less than half of the liquid is left.
 - Turn off the hot plate and let the liquid cool for a few minutes.
 - Look at the beaker. Is there a powder on the bottom? Is there a solid left after boiling?
- To see if it reacts with baking soda:**
 - Pour 25 mL of your liquid into a clean beaker.
 - Place a small scoop of baking soda into the liquid.
 - Do bubbles form? If so, it does react with baking soda.
- To find out the pH:**
 - Carefully and with dry tweezers, place a strip of pH paper in the liquid.
 - Look at the color that your pH paper is. The color chart gives you the pH.
 - Write down the pH that goes with the color.

Part 2 - Observation Sheet

Mystery Liquid: _____

Physical Properties

What color is it?	
Can you see through it?	
How does it smell?	
Boiling point	
Is there a solid left after boiling?	

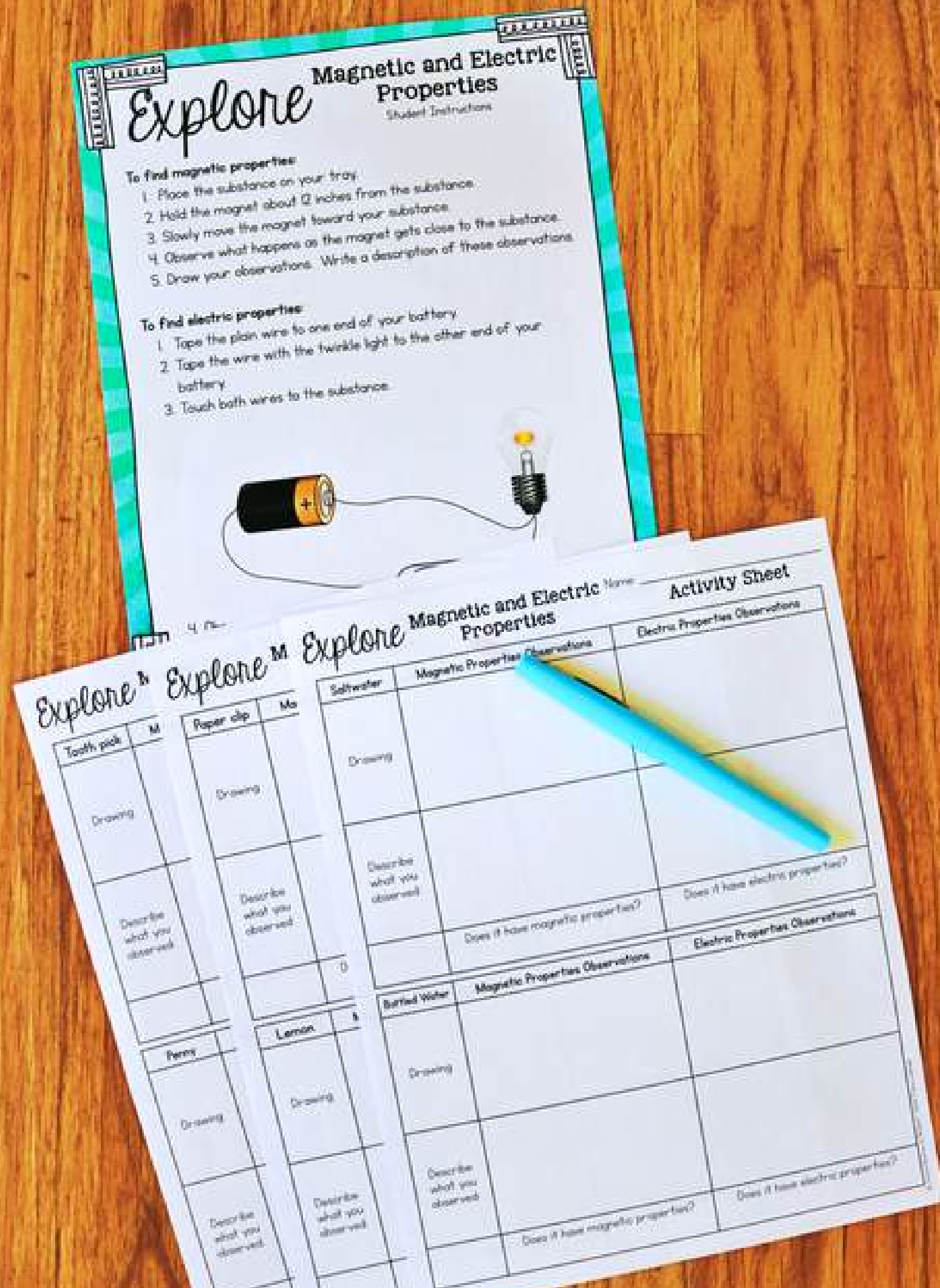
Chemical Properties

Does it react with baking soda?	
What is its pH?	
What is the identity of your liquid?	

HANDS-ON EXPLORATION WHERE STUDENTS TEST OBJECTS FOR MAGNETIC AND ELECTRIC PROPERTIES.

HANDS-ON EXPLORATION WHERE STUDENTS TEST OBJECTS FOR MAGNETIC AND ELECTRIC PROPERTIES.

Beautiful and
engaging resources!
Very detailed and full
of fun activities.
Loved it!
- Bobbie S.



SORT STATION

STUDENTS CATEGORIZE MATERIALS AND EXPLAIN THEIR THINKING TO BUILD DEEPER UNDERSTANDING.

“Students enjoyed this activity. I used this resource with EB students.”
- Amber W.



PROPERTIES OF MATTER ACTIVITIES

SUGGESTED USES

Learning Stations

Use all eight stations or just a few as learning stations that students complete at their own pace.

Science Centers

Set up a rotation where students visit each center to complete the activities.

Whole Class

Use the activities in a whole class format.

Small Group

Use the activities with a small group who need extra help.



All activities have the same basic components:

- ★ Student Directions
- ★ Short Answer Worksheet
- ★ Fill-in-the-Blank Worksheet
- ★ Cut & Paste Worksheet
- ★ Short Answer Task Cards
- ★ Multiple Choice Task Cards

Some activities have more reading to build background knowledge and additional worksheets or activity sheets to help organize the new information.

**NOT ALL VERSIONS OF THE PAGES ARE
DISPLAYED ON THE FOLLOWING PAGES,
BUT ALL ARE IN EACH RESOURCE**

DIGITAL VERSIONS

- ✓ Google Forms and/or
- ✓ Google Slides for every station
- ✓ Videos
- ✓ Video Games
- ✓ Digital Crossword Puzzles & Word Searches

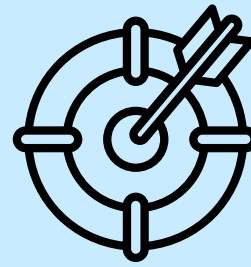
Answer keys provided

YOU WILL LOVE THIS BECAUSE



Complete Unit in One Download

Provides everything needed to teach properties of matter without searching for separate labs, readings, and review materials.



Direct NGSS Alignment

All activities support NGSS standard 5-PS1-3, helping students observe and measure properties to identify and classify materials.



Saves Teachers Valuable Time

With ready-to-use materials, digital options, and answer keys included, teachers can quickly implement engaging science instruction.

TEACHERS LOVE IT!



These resources are awesome! I love the convenience of having so many different types of activities already put together in one place!

Lindley G.



I absolutely love all of your science packets. They are so thorough in teaching the content, but I love the hands on experiments best of all. I am homeschooling my 6th grade daughter, and she loves doing all the experiments! You have the best packets I can find, and will continue to buy them! Thank you!

Kerri P.

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to earn Reward Points
to get more resources!

My passion is making learning accessible to all students.
I love scaffolding learning, breaking down the concepts and
building them up so that students can see the connections.
I love figuring out the small components that build up to
the big ideas and helping students see it all.



What I have **LEARNED**