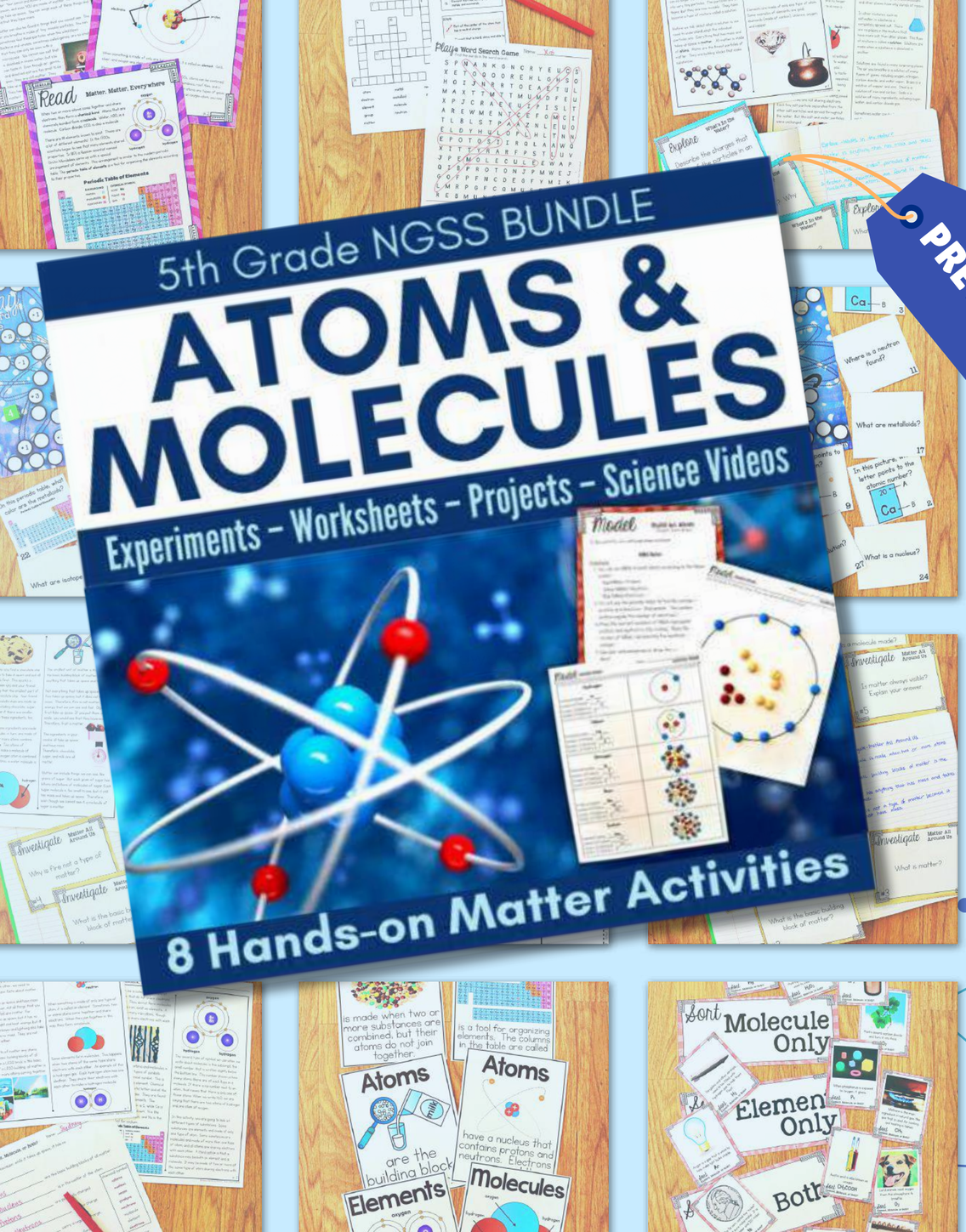


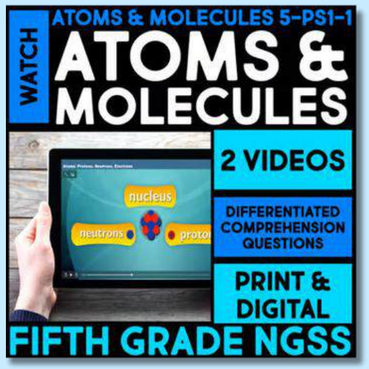
Atoms & Molecules Made Simple!

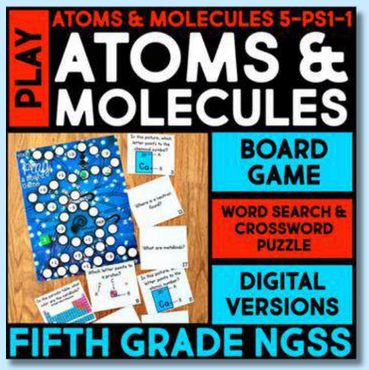
5TH GRADE

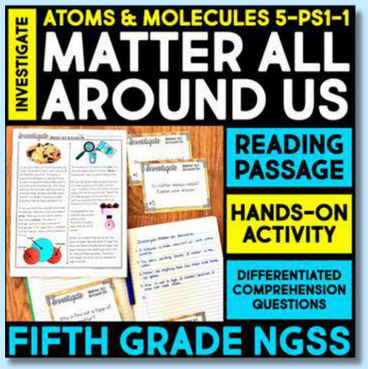
ATOMS AND MOLECULES BUNDLE

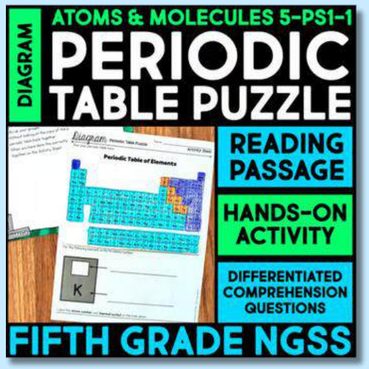
KEEP SCROLLING TO SEE WHAT'S INSIDE!

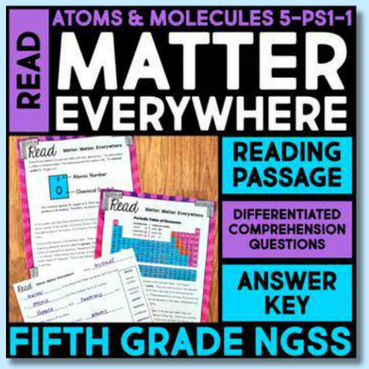
WHAT'S INCLUDED IN THE BUNDLE?

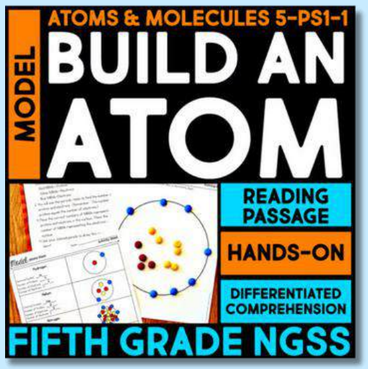


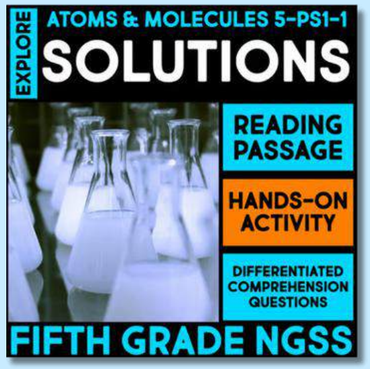


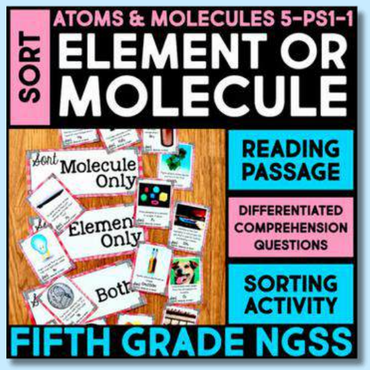












- 8 Science Stations aligned with the NGSS for 2nd grade
- 6 Reading passages
- Hands-on activities
- Differentiated comprehension questions
- Digital Videos & Video Games
- Digital Google Slides & Forms

6 READING PASSAGE

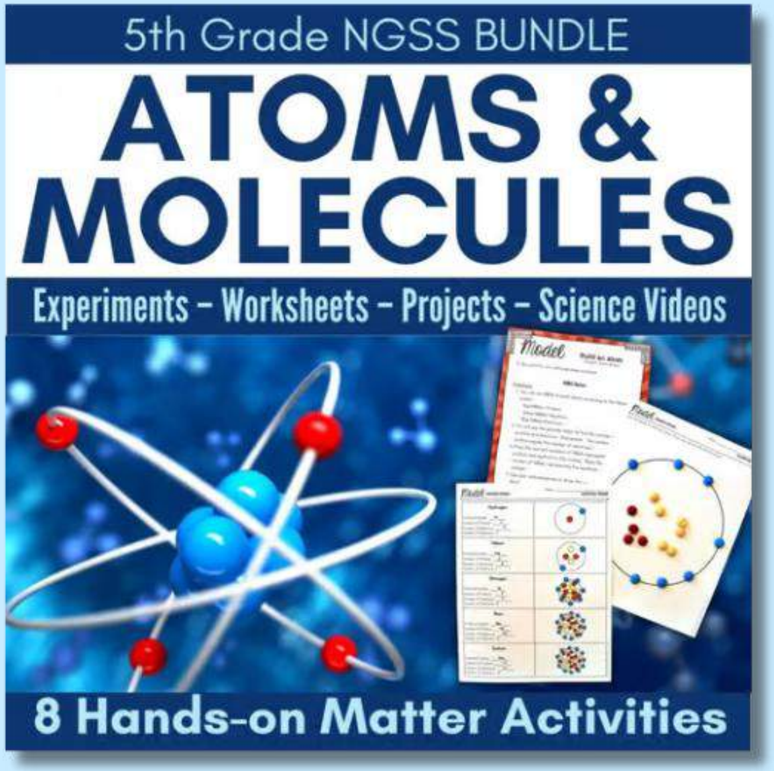


6 Reading Passages that provide all scientific background knowledge for each station

Available in two formats + Digital

Includes pictures and visuals

PAGE OVERVIEW





Atoms & Molecules Unit BUNDLE

Station & Name		Standards	Objective
Big Idea Posters & Vocabulary Cards (included with the BUNDLE)			
Watch	Atoms: Protons, Neutrons, and Electrons / Atoms & Molecules	5-PSI-1, 5-PSI-4, (ELA) SL.4.2	Students will watch a video about atoms and molecules. They will answer questions to reinforce what they have learned.
Play	Matter: a Board Game / Matter: Crossword or Word Search	5-PSI-1, 5-PSI-4, (ELA) RI.5.1, RF.5.4, W.5.2, W.5.8	Students will play a board game or complete a crossword puzzle or word search in order to reinforce what they have learned about matter.
Investigate	Matter All Around Us	5-PSI-1, 5-PSI-4, (ELA) RI.5.1, RF.5.4, W.5.2, W.5.8	Students will read about matter. They will conduct an investigation to determine if air and other things we cannot see are made of matter. They will answer questions in order to reinforce what they have learned.
Diagram	Periodic Table Puzzle	5-PSI-1, 5-PSI-4, (ELA) RI.5.1, RI.5.2, RI.5.4, RI.5.7, RF.5.4, W.5.2, W.5.8	Students will read about the Periodic Table. They will create their own periodic table puzzles and practice putting them back together again. Students will then answer questions in order to reinforce what they have learned.
Read	Matter, Matter, Everywhere	5-PSI-1, 5-PSI-4, (ELA) RI.5.1, RI.5.2, RI.5.4, RI.5.7, RF.5.4, W.5.2, W.5.8	Students will read about matter, atoms, and molecules. They will answer questions in order to reinforce what they have learned.
Model	Build an Atom	5-PSI-1, 5-PSI-4, (ELA) RI.5.1, RI.5.2, RI.5.4, RI.5.7, RF.5.4, W.5.2, W.5.8	Students will read about atoms. They will build models of different types of atoms found on the periodic table. They will answer questions in order to reinforce what they have learned.
Explore	What's In the Water	5-PSI-2, 5-PSI-4, (ELA) RI.5.1, RI.5.2, RI.5.4, RI.5.7, RF.5.4, W.5.2, W.5.8	Students will read about how we cannot see particles dissolved in solution. They will answer questions in order to reinforce what they have learned.
Sort	Element, Molecule, or Both?	5-PSI-1, 5-PSI-4, (ELA) RI.5.1, RI.5.2, RI.5.4, RI.5.7, RF.5.4, W.5.2, W.5.8	Students will read about atoms and molecules. They will sort materials into three categories. They will then answer questions in order to reinforce what they have learned.



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.

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.

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.

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.

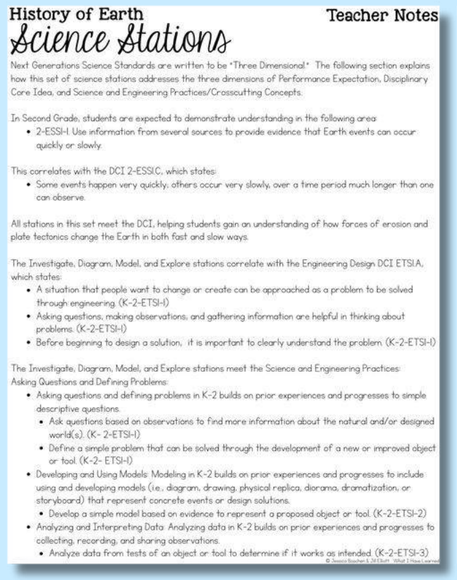
Investigate
Students use materials to investigate the science topic by following directions and recording results. Students answer questions about the investigation.

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

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

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

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History of Earth — Teacher Notes

Science Stations

Next Generations 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 Second Grade, students are expected to demonstrate understanding in the following area:

- 2-ESSI-1. Use information from several sources to provide evidence that Earth events can occur quickly or slowly.

This correlates with the DCI 2-ESSI.C, which states:

- Some events happen very quickly, others occur very slowly, over a time period much longer than one can observe.

All stations in this set meet the DCI, helping students gain an understanding of how forces of erosion and plate tectonics change the Earth in both fast and slow ways.

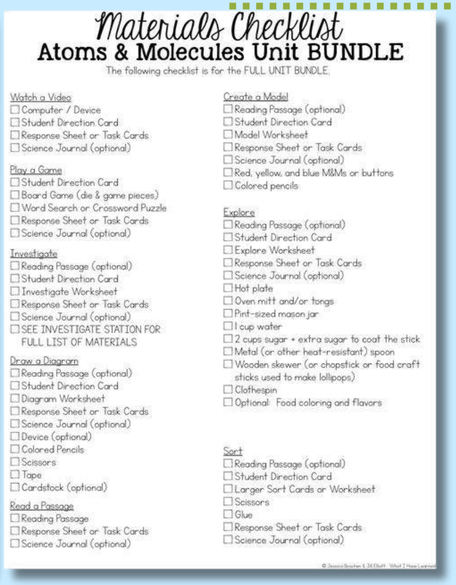
The Investigate, Diagram, Model, and Explore stations correlate with the Engineering Design DCI ETSI.A, which states:

- A situation that people want to change or create can be approached as a problem to be solved through engineering. (K-2-ETSI-1)
- Asking questions, making observations, and gathering information are helpful in thinking about problems. (K-2-ETSI-1)
- Before beginning to design a solution, it is important to clearly understand the problem. (K-2-ETSI-1)

The Investigate, Diagram, Model, and Explore stations meet the Science and Engineering Practices:
Asking Questions and Defining Problems:

- Asking questions and defining problems in K-2 builds on prior experiences and progresses to simple descriptive questions.
  - Ask questions based on observations to find more information about the natural and/or designed world(s). (K- 2-ETSI-1)
  - Define a simple problem that can be solved through the development of a new or improved object or tool. (K-2- ETSI-1)
- Developing and Using Models: Modeling in K-2 builds on prior experiences and progresses to include using and developing models (i.e., diagram, drawing, physical replica, diorama, dramatization, or storyboard) that represent concrete events or design solutions.
  - Develop a simple model based on evidence to represent a proposed object or tool. (K-2-ETSI-2)
- Analyzing and Interpreting Data: Analyzing data in K-2 builds on prior experiences and progresses to collecting, recording, and sharing observations.
  - Analyze data from tests of an object or tool to determine if it works as intended. (K-2-ETSI-3)

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Materials Checklist
Atoms & Molecules 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)
- ☐ SEE INVESTIGATE STATION FOR FULL LIST OF MATERIALS

Draw a Diagram
- ☐ Reading Passage (optional)
- ☐ Student Direction Card
- ☐ Diagram Worksheet
- ☐ Response Sheet or Task Cards
- ☐ Science Journal (optional)
- ☐ Device (optional)
- ☐ Colored Pencils
- ☐ Scissors
- ☐ Tape
- ☐ Cardstock (optional)

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)
- ☐ Red, yellow, and blue M&Ms or buttons
- ☐ Colored pencils

Explore
- ☐ Reading Passage (optional)
- ☐ Student Direction Card
- ☐ Explore Worksheet
- ☐ Response Sheet or Task Cards
- ☐ Science Journal (optional)
- ☐ Hot plate
- ☐ Oven mitt and/or tongs
- ☐ Pint-sized mason jar
- ☐ 1 cup water
- ☐ 2 cups sugar + extra sugar to coat the stick
- ☐ Metal (or other heat-resistant) spoon
- ☐ Wooden skewer (or chopstick or food craft sticks used to make lollipops)
- ☐ Clothespin
- ☐ Optional: Food coloring and flavors

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

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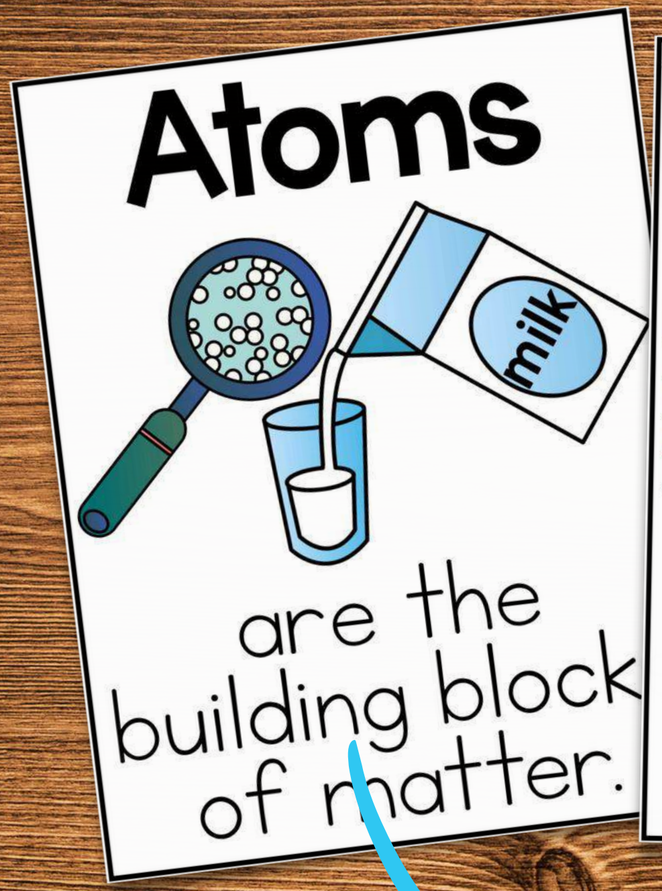
Table of Contents

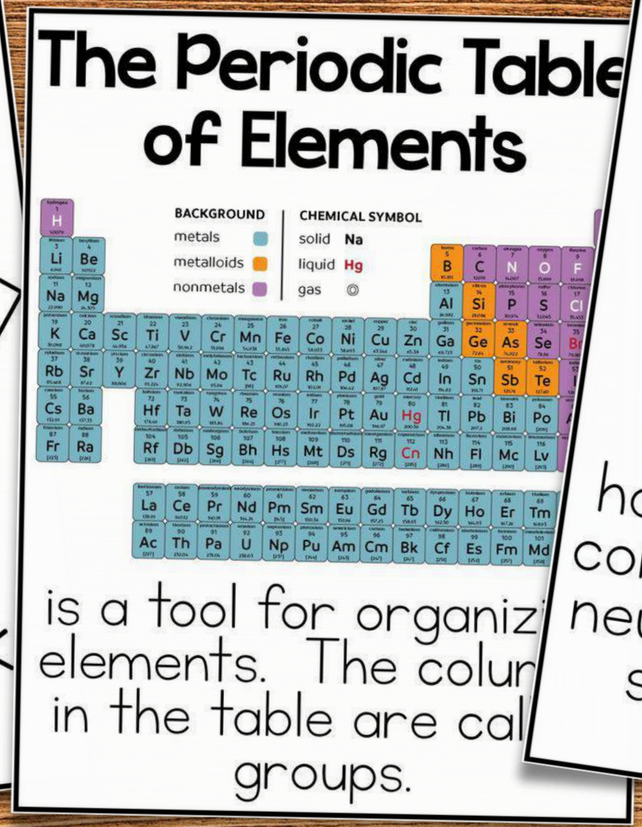
Science Station Overview

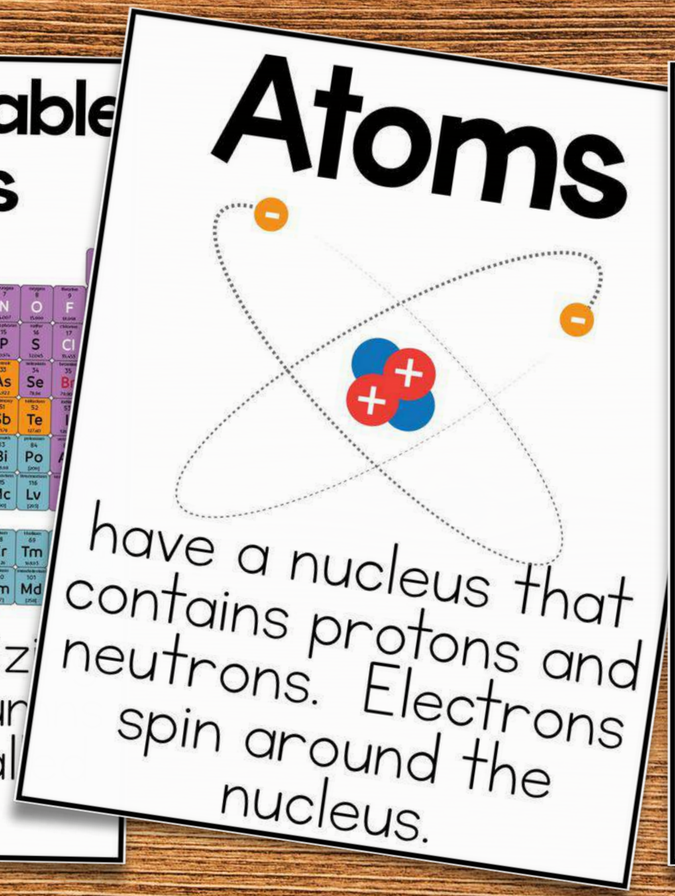
Materials Checklist

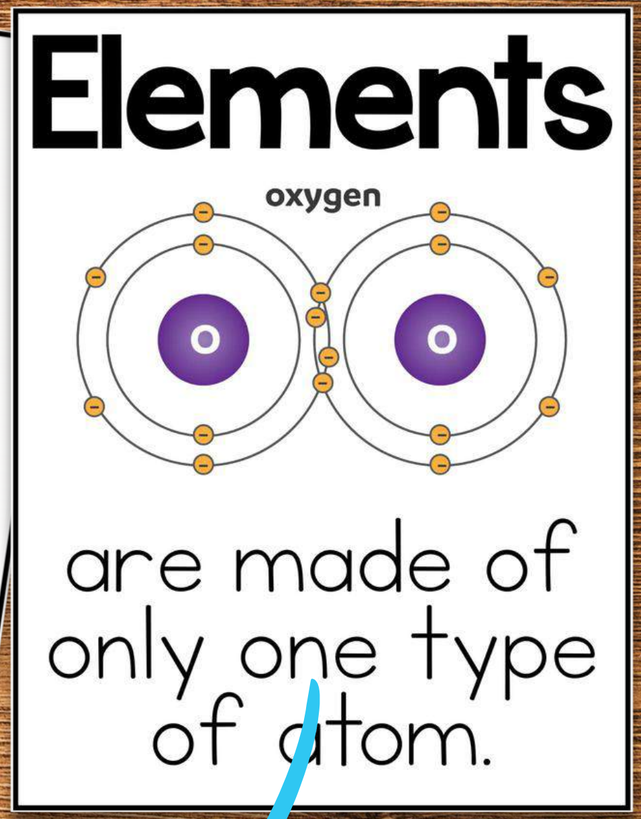
Science Stations

BIG IDEA POSTERS









BIG IDEA POSTERS THAT EXPLAIN THE KEY CONCEPTS.

elements

isotopes

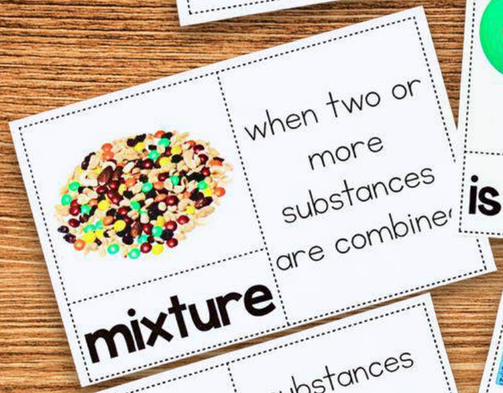
properties

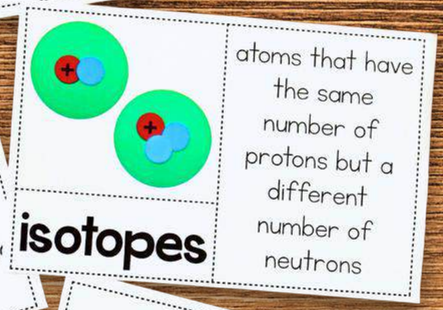
atoms that have the same number of protons but a different number of neutrons

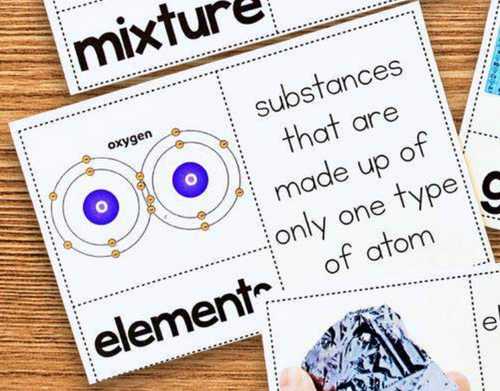
substances that are made up of only one type of atom

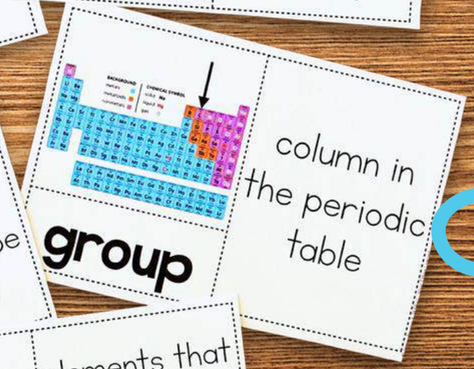
ways to describe things

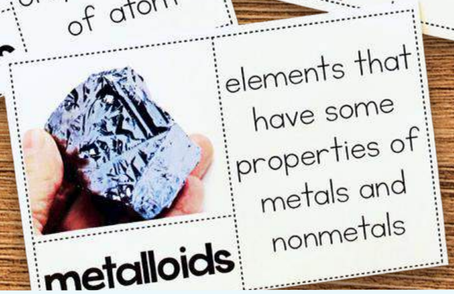






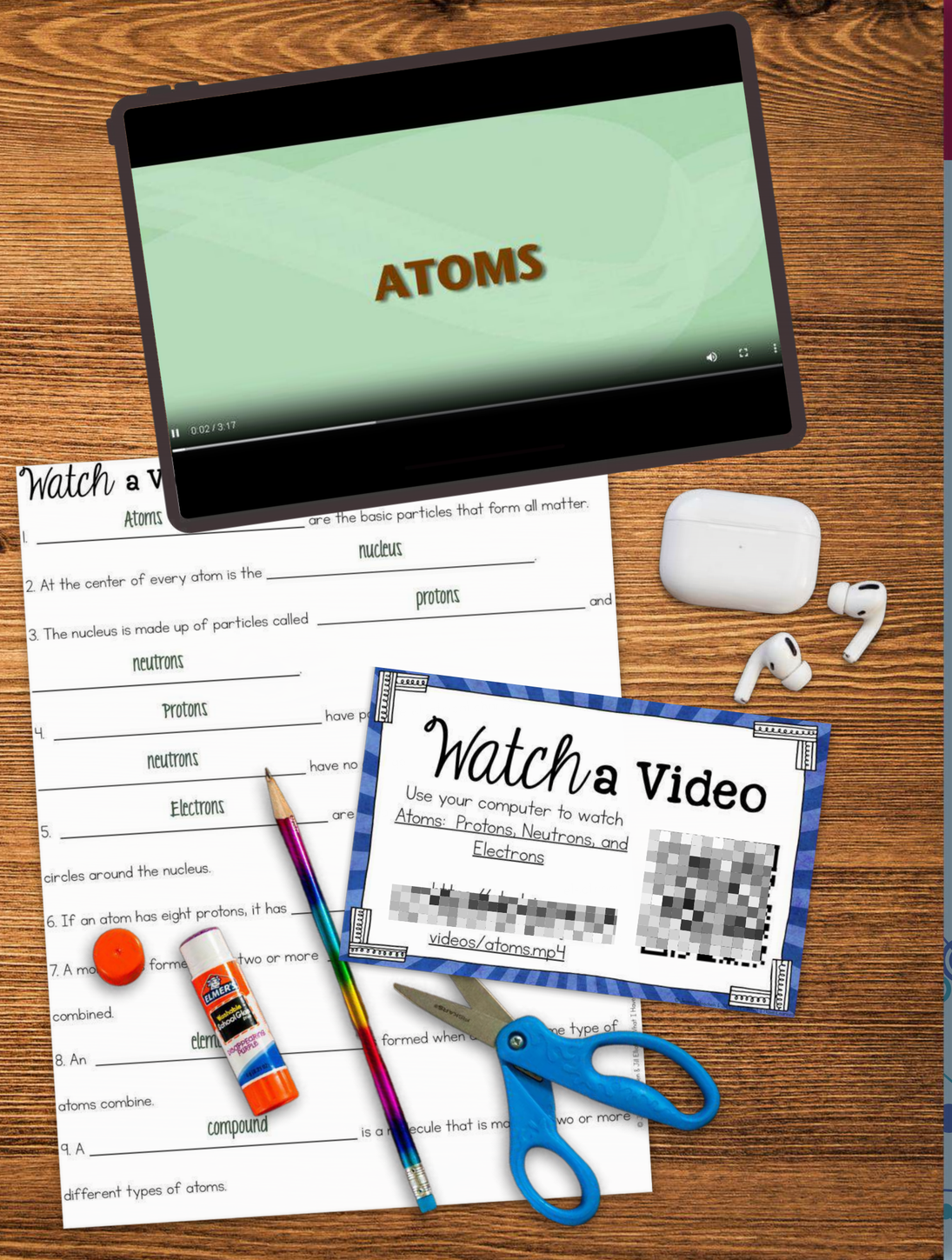






VOCABULARY CARDS WITHOUT PICTURE

VOCABULARY CARDS WITH PICTURE



WATCH STATION

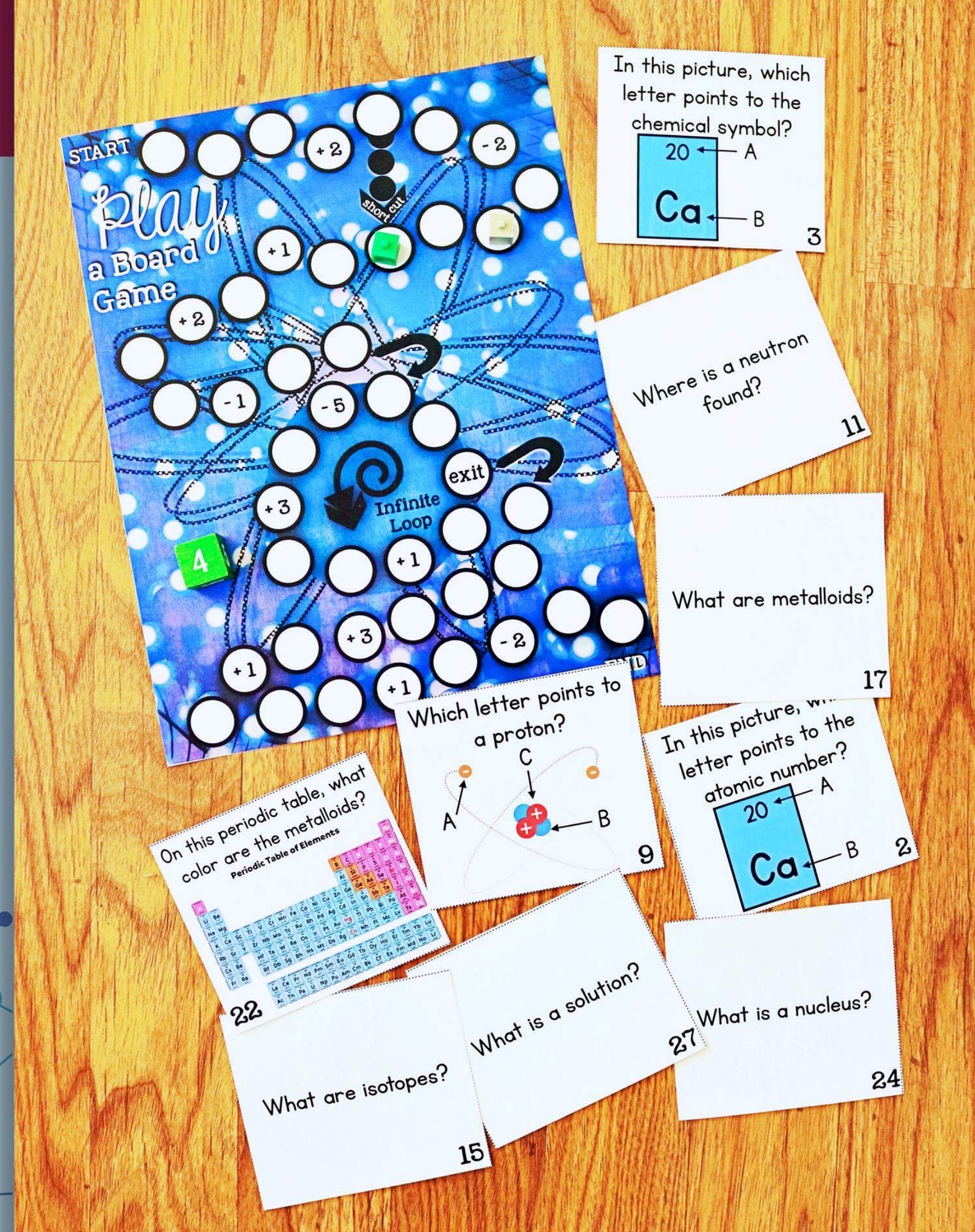
STUDENTS WATCH ONE OF TWO VIDEOS AND THEN ANSWER QUESTIONS ABOUT THE VIDEOS. VIDEOS ARE ABOUT ATOMS AND MOLECULES. (GOOGLE FORM™ AVAILABLE)

> "My students enjoy having a variety of ways to learn the material."
> - Rita L.

PLAY STATION

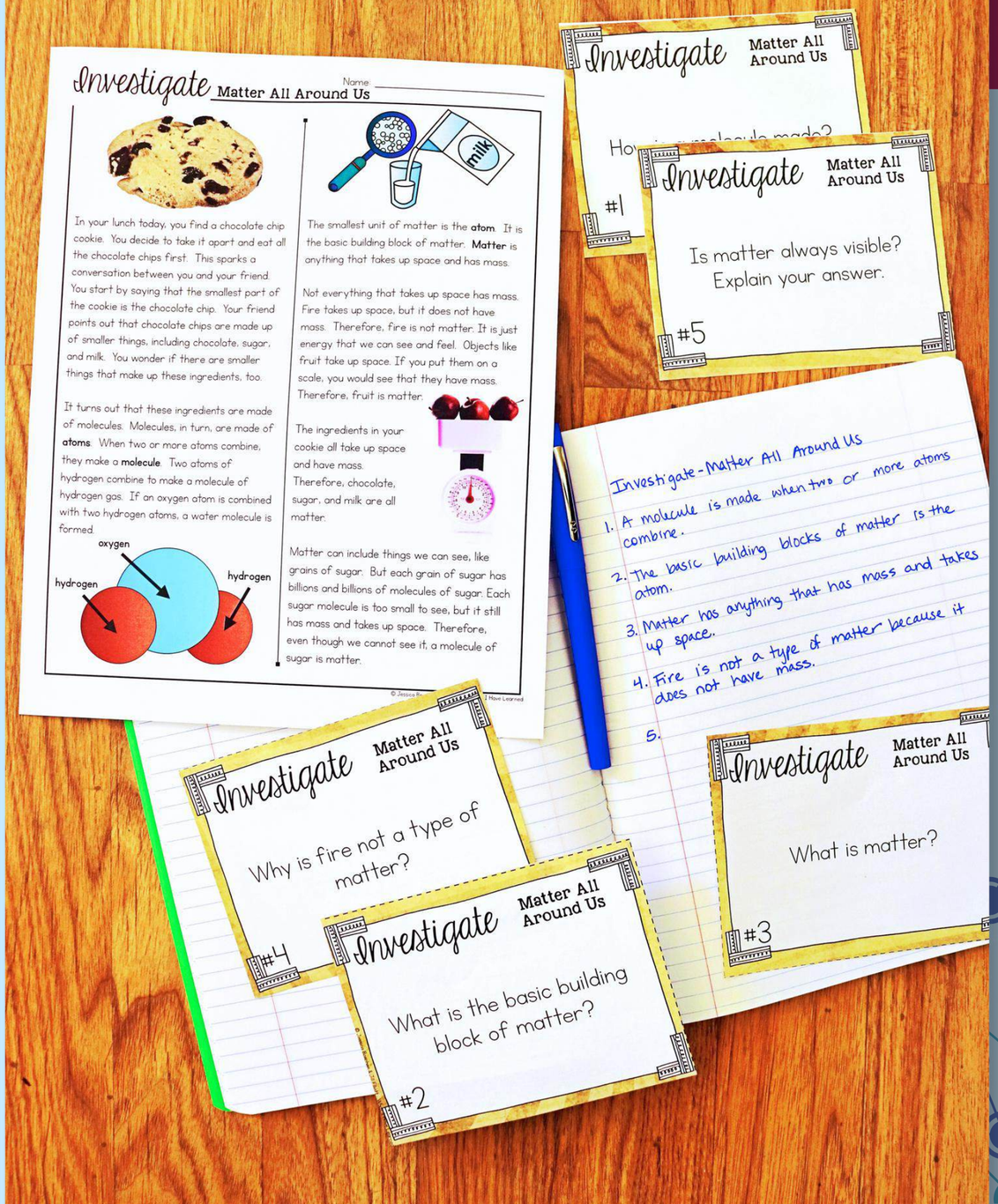
STUDENTS PLAY A BOARD GAME WITH OTHER STUDENTS OR DO A CROSSWORD OR WORD SEARCH PUZZLE. THE CROSSWORD AND WORD SEARCH PUZZLES ARE AVAILABLE DIGITALLY.

> "My students liked the puzzle format to review their vocabulary words."
> - CONNIE W.



INVESTIGATE STATION

STUDENTS READ ABOUT MATTER. THEY CONDUCT AN INVESTIGATION TO DETERMINE IF AIR AND OTHER THINGS WE CANNOT SEE ARE MADE OF MATTER. (GOOGLE FROM™ AND GOOGLE SLIDES™ ARE AVAILABLE)

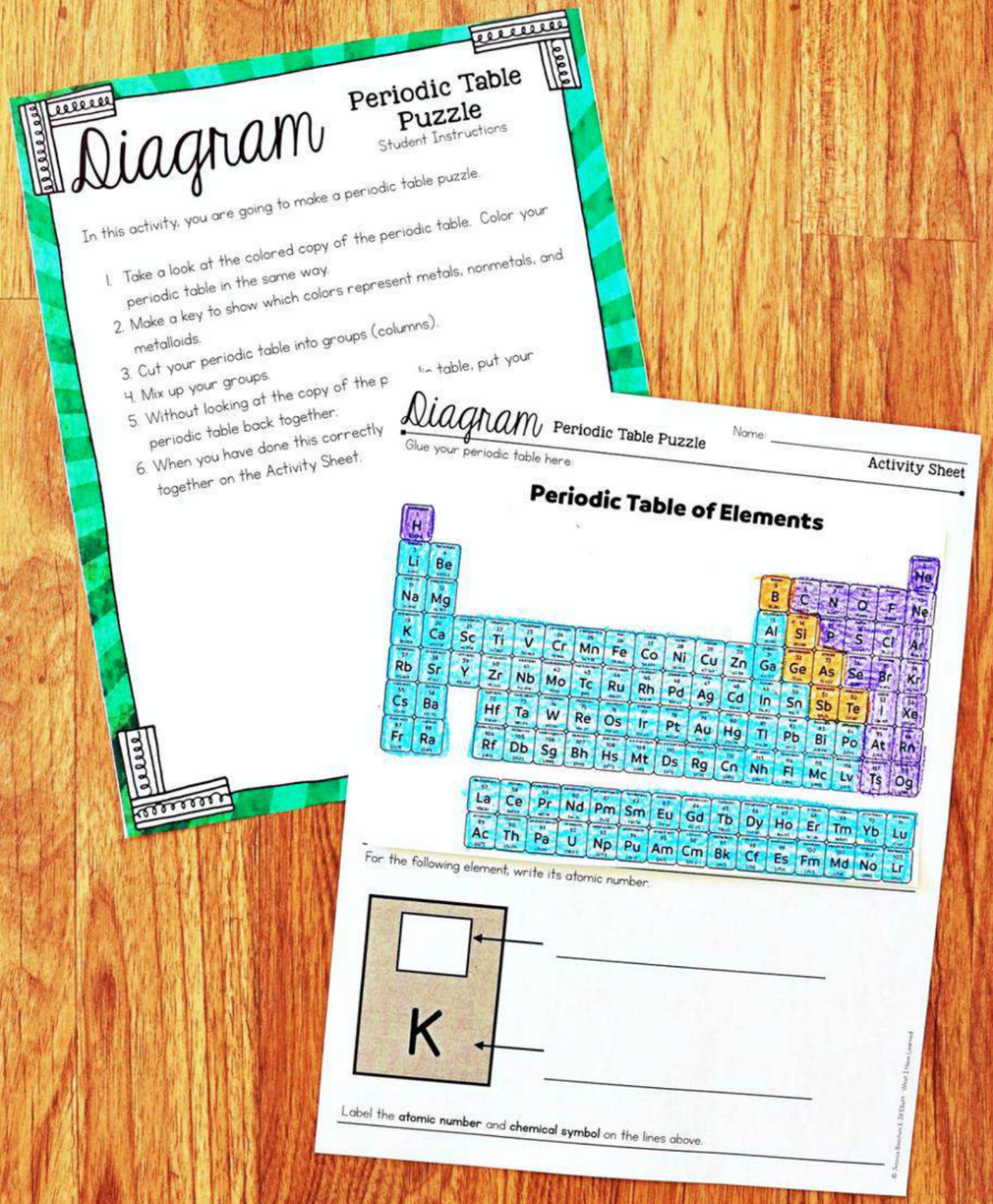


> "This was a helpful resource for my Resource Room kids! Thank you!"
> - Melissa T.

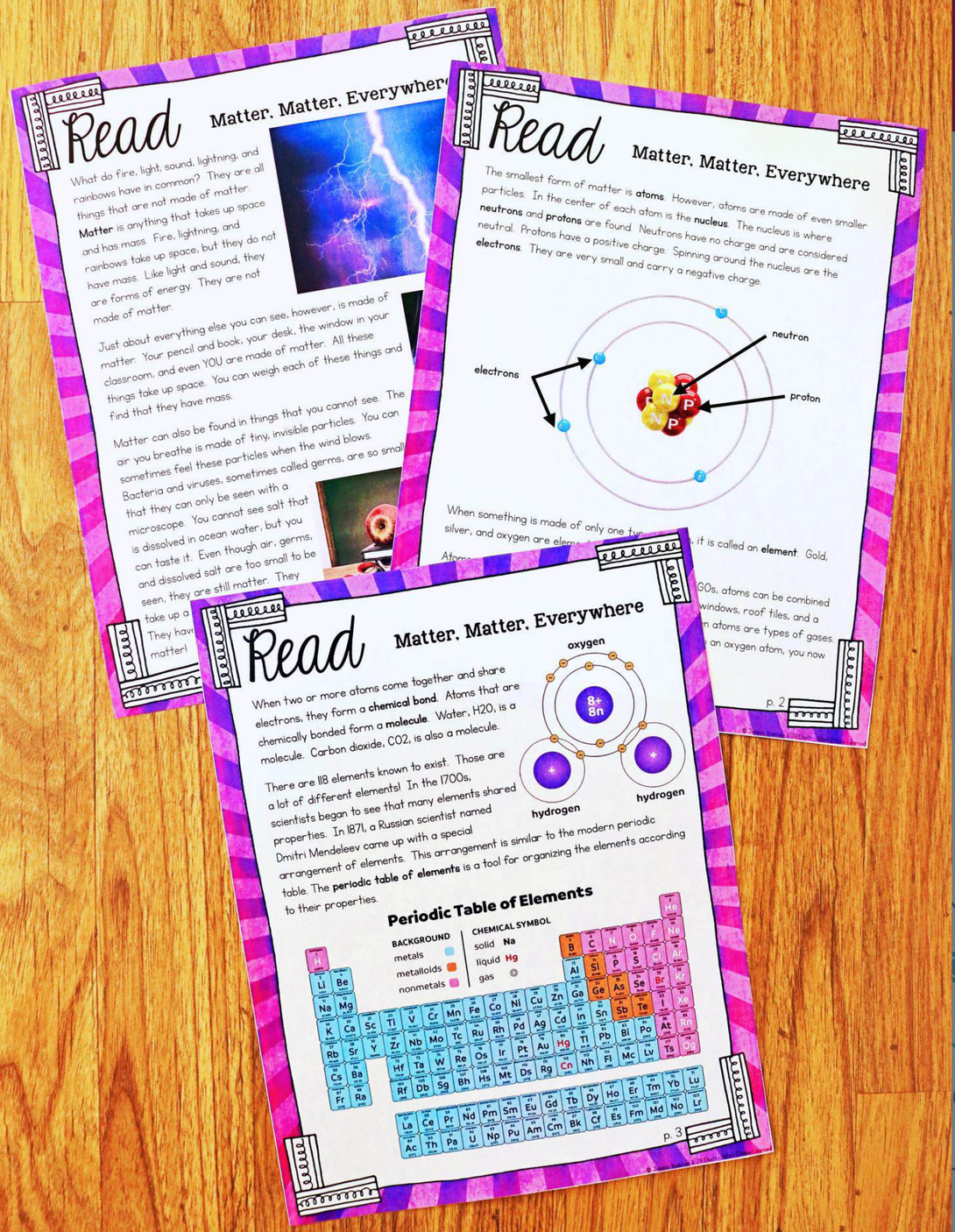
DIAGRAM STATION

STUDENTS READ ABOUT THE PERIODIC TABLE. THEY CREATE A PERIODIC TABLE PUZZLE AND PRACTICE PUTTING IT BACK TOGETHER WITH CLASSMATES.

> "This was a good addition to our science journals."
> - Lisa L.



READ STATION



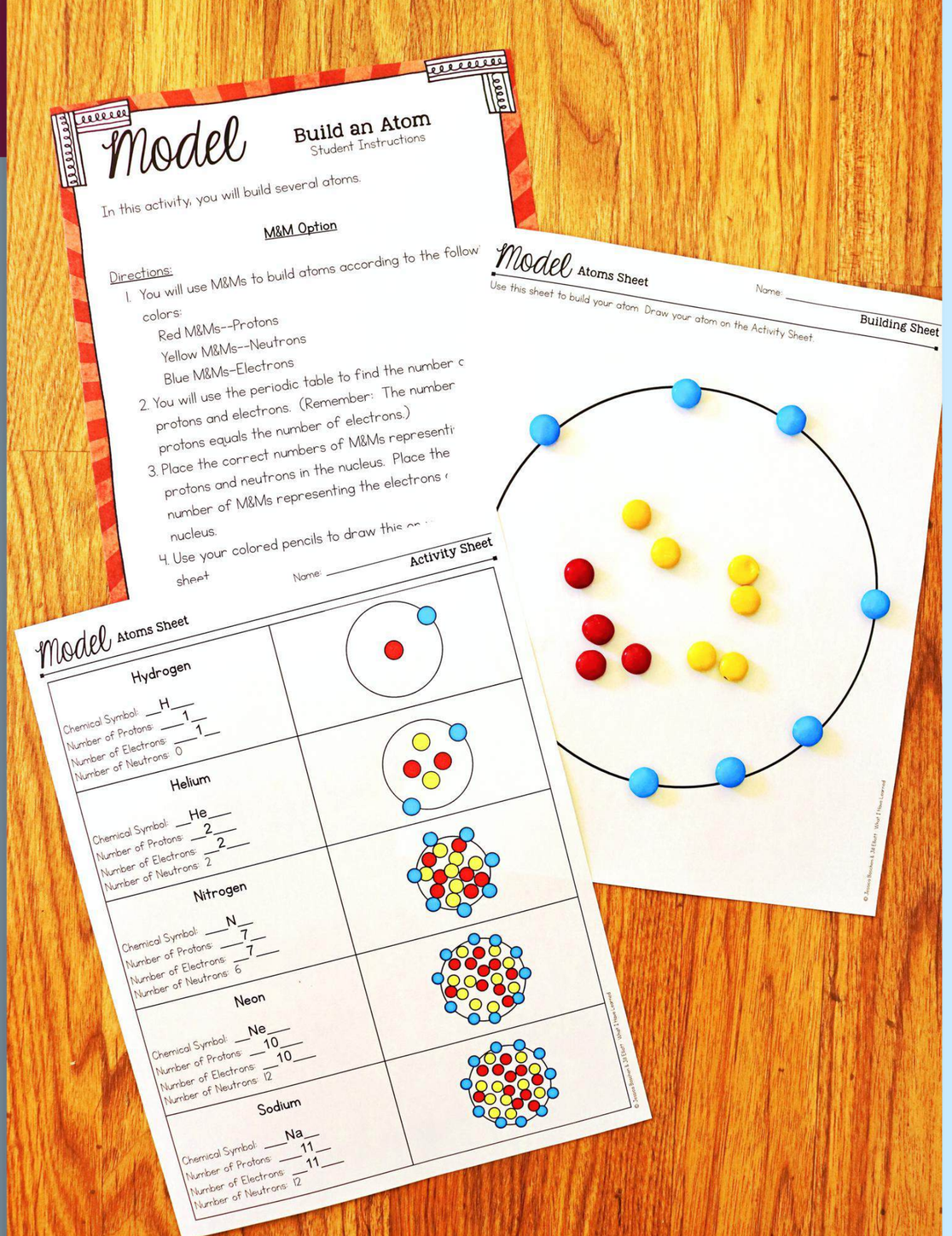
STUDENTS READ ABOUT MATTER, ATOMS, AND MOLECULES. THEY ANSWER QUESTIONS IN ORDER TO REINFORCE WHAT THEY HAVE LEARNED.

> "Just the extra practice I needed for my students. Thank you."
> - Morna F.

MODEL STATION

STUDENTS READ ABOUT ATOMS. THEY WILL BUILD MODELS OF DIFFERENT TYPES OF ATOMS FOUND ON THE PERIODIC TABLE.

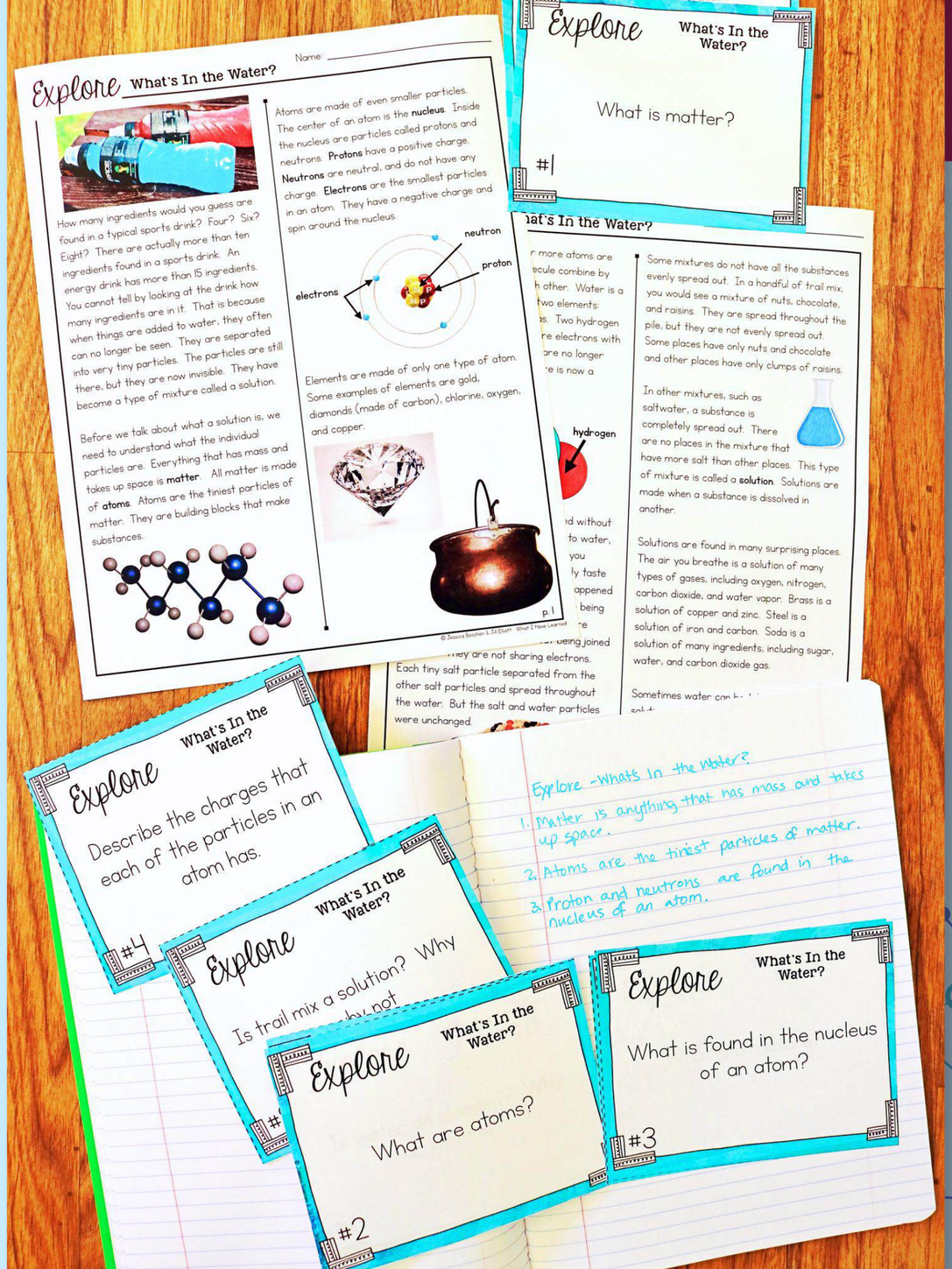
> "Perfect way to show understanding of atoms."
> - Deborah T.



EXPLORE STATION

STUDENTS READ ABOUT HOW WE CANNOT SEE PARTICLES DISSOLVING IN A SOLUTION. THEY WILL CREATE A SOLUTION AND RECORD OBSERVATIONS.

> "Great resource for integrated units."
> - Schritta D.



SORT STATION

STUDENTS READ ABOUT ATOMS AND MOLECULES. THEY SORT MATERIALS INTO THREE CATEGORIES. STUDENTS THEN ANSWER QUESTIONS IN ORDER TO REINFORCE WHAT THEY HAVE LEARNED.

> "A great resource to help students understand atoms."
> - Oh So Fifth



WATCH • PLAY • INVESTIGATE • DIAGRAM • READ • MODEL • EXPLORE • SORT

ATOMS AND MOLECULES 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.

YOU WILL LOVE THIS BECAUSE



Comprehensive Coverage

Eight stations explore atoms, molecules, periodic table, and solutions—providing complete NGSS-aligned instruction with hands-on and digital learning.



Direct NGSS Alignment

Meets 5-PS1-1 with clear links to DCI, Practices, and Crosscutting Concepts—helping teachers confidently align lessons with science standards.



Hands-On + Digital

Blends tactile activities like building atom models with Google Forms and Slides—engaging all learners in multimodal science practice.

TEACHERS LOVE IT!

I used this in my 6th grade classroom as a self paced unit. They had a final due date that all of the stations were due but they could work at their own pace... These stations were easy for the students to follow and complete on their own with little extra explaining on my part.

Elizabeth C.



Aligned with standard and was a great resource. I would highly recommend this resource, it was great and low prep work.

brooke T.



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.



teach MATH | teach SCIENCE | teach READING | teach WRITING

What I have LEARNED