

2ND
GRADE

Let's Sort and Find Out!

SORT

SOLID, LIQUID,
& GAS

States of Matter Cut & Paste
Types of Matter Activity

KEEP SCROLLING TO SEE
WHAT'S INSIDE!

SOLIDS, LIQUIDS & GASES SORT

GRADE 2
NGSS

PREVIEW

Liquid

Solid

Gas

States of Matter | Hands-On Science Center

ACTIVITY OVERVIEW



Table of Contents		
Science Station	Standard	Objective
Watch What's Matter / Hunting Properties	2-PSA, 2-PSB, (ELA) SL.2.2 (WAK), 2MA.4	Students watch a video in order to learn about matter and the properties of matter. They answer questions in order to reinforce what they have learned.
Play Changing State	2-PSA, 2-PSB, (ELA) SL.2.2	Students play a game in order to learn what happens when matter changes state. They answer questions in order to reinforce what they have learned.
Investigate State of Change	2-PSA, 2-PSB, 2-PSA, (ELA) RI.2.1, RI.2.2, RI.2.3, RI.2.4, RI.2.7, RI.2.8	Students read about states of matter and changes of state of matter. They change the state of matter (or matter) in order to investigate this. They answer questions in order to reinforce what they have learned.
Diagram How Hard Can It Be?	2-PSA, 2-PSA, (ELA) RI.2.1, RI.2.2, RI.2.3, RI.2.4, RI.2.7, RI.2.8	Students read about properties of matter and hardness. They create a diagram in the form of a state of matter and answer questions in order to reinforce what they have learned.
Read Let's Talk About Matter	2-PSA, 2-PSB, (ELA) RI.2.1, RI.2.2, RI.2.3, RI.2.4, RI.2.7, RI.2.8	Students read about how small pieces can be put together differently to make different things. They answer questions in order to reinforce what they have learned.
Model Parts of the Whole	2-PSA, 2-PSA, (ELA) RI.2.1, RI.2.2, RI.2.3, RI.2.4, RI.2.7, RI.2.8	Students read about how small pieces can be put together differently to make different things. They answer questions in order to reinforce what they have learned.
Explore Materials Matter	2-PSA, 2-PSA, (ELA) RI.2.1, RI.2.2, RI.2.3, RI.2.4, RI.2.7, RI.2.8	Students read about matter and matter. They explore the nature of matter by observing the properties of matter and answer questions in order to reinforce what they have learned.
Sort Which State Is It?	2-PSA, (ELA) RI.2.1, RI.2.3, RI.2.4, RI.2.7, RI.2.8	Students read about the states of matter. They sort pictures into categories of states of matter. They then answer questions in order to reinforce what they have learned.

Answer Key

Science Stations Overview

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

Play a Video Game
Students play an online video game and answer questions about the experience. You have the option of the included worksheet with the questions or use task cards and have 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 the included worksheet with the questions or use task cards and have 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 the included worksheet with the questions or use task cards and have 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.

Table of Contents

Background Information

Materials Checklist

Teacher Notes/
Table of Contents

Teacher Notes

This SORT Science Station is one of 8 Science Stations about Structure and Properties of Matter. The following pages give information about ALL of the science stations in the unit.

Standard	Objective	Materials
2-PSA, (ELA) RI.2.1, RI.2.3, RI.2.4, RI.2.7, RI.2.8	Students read about the states of matter. They sort pictures into categories of states of matter. They then answer questions in order to reinforce what they have learned.	Student Sheets Scissors Glue

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Google Digital Resources	p. 10
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Answer Key	p. 47

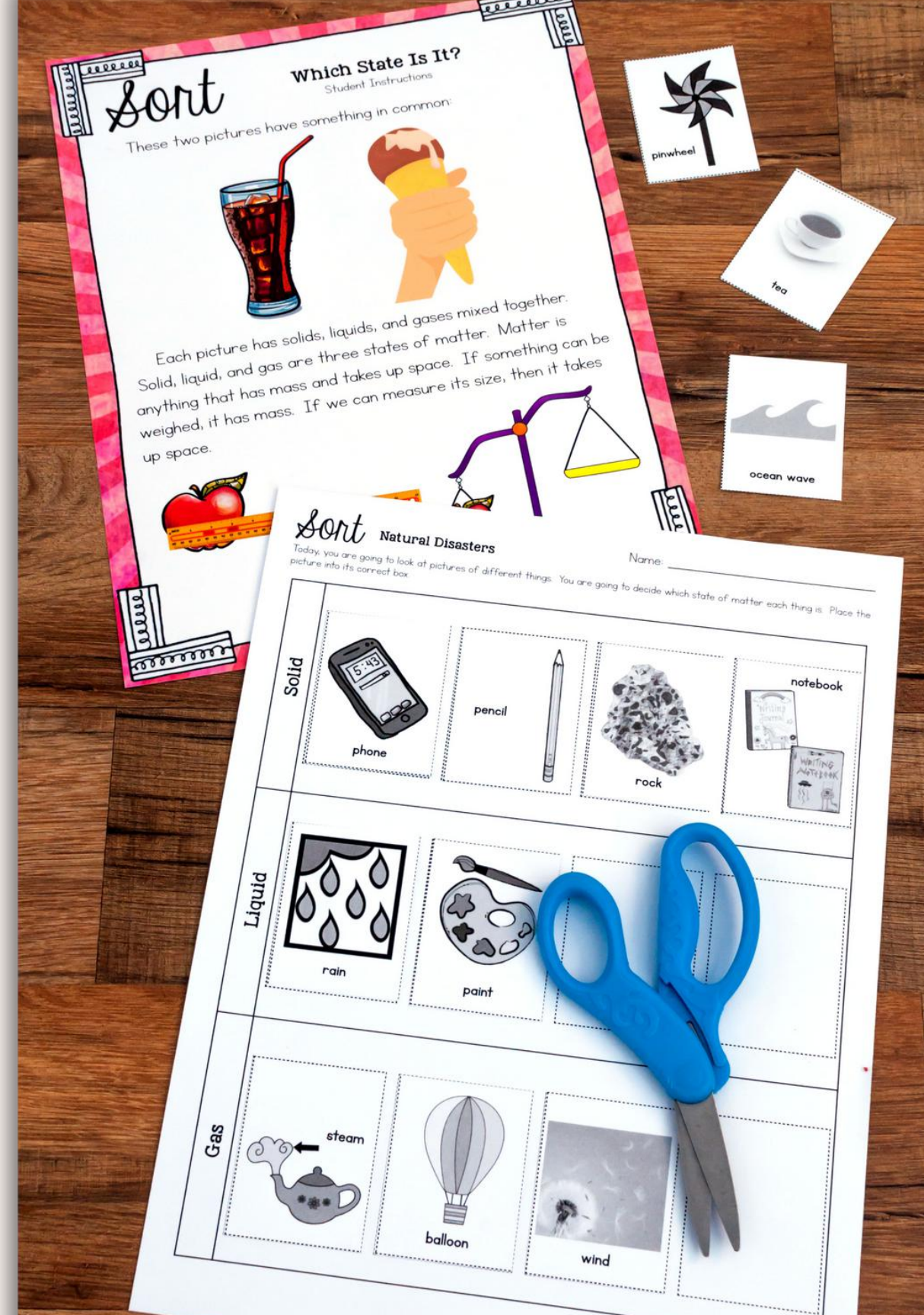
- ### Sort
- ☐ Directions Card
 - ☐ Sort Cards
 - ☐ Scissors
 - ☐ Glue
 - ☐ Response Sheet
 - ☐ Task Cards
 - ☐ Science Journal

WHAT'S INCLUDED

SORTING SCIENCE

STATION

- ✓ **Student Text** in four formats
- ✓ **MP3** Audio Read-Aloud
- ✓ **Sorting Activity** with color cards
- ✓ Sorting Activity in a **B&W worksheet**
- ✓ Differentiated **Questions**
- ✓ Answer Key
- ✓ Google Form™
- ✓ Google Slides™ with Sort Activity

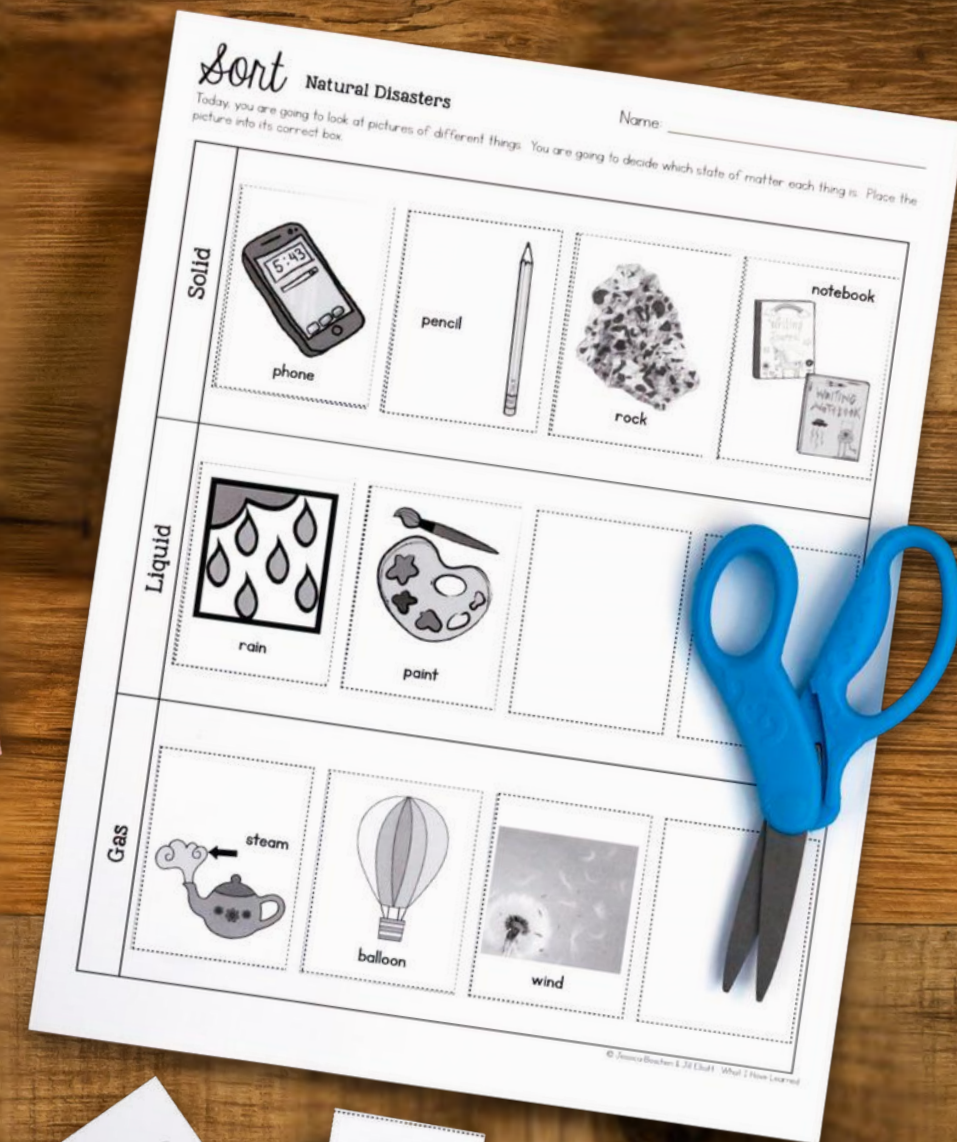
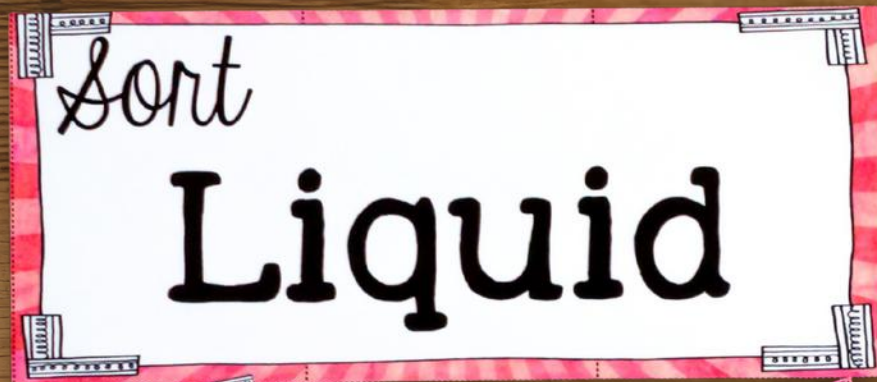


SORT: READING PASSAGE



READING PASSAGE IN FOUR FORMATS

ENGAGING ACTIVITY & WORKSHEETS



DIFFERENTIATED QUESTIONS



Sort Land or Water? Name: _____

1. Why can plants grow big in the rainforest habitat?

2. Why do less plants and animals live at the tops of mountains?

3. Which habitat is the world's largest habitat?

4. Describe the river habitat.

5. What is the water like in a swamp habitat?

**SHORT
ANSWER**

Sort Land or Water? Name: _____

1. Plants can grow big in the rainforest habitat because there is so much _____.

2. At the tops of _____, there is harsh, cold weather and a lot of wind.

3. The _____ habitat is the world's largest habitat.

4. The _____ habitat has fresh, moving water.

5. Swamp habitats have fresh _____ that does not _____.

Words to Use:
ocean
rain
mountains
river
move

**FILL-IN-THE
BLANK**

Sort Land or Water? Name: _____

1. Plants can grow big in the rainforest habitat because there is so much _____.

2. At the tops of _____, there is harsh, cold weather and a lot of wind.

3. The _____ habitat is the world's largest habitat.

4. The _____ habitat has fresh, moving water.

5. Swamp habitats have fresh or salt _____ that does not _____.

ocean rain mountains river move

Sort Land or Water?

Why do less plants and animals live at the tops of mountains?

#2

#2 Sort Land or Water?

Why do less plants and animals live at the tops of mountains?

a. The weather is not harsh.
b. There is not enough wind.
c. It is very cold.
d. All of the above

**TASK CARDS:
SHORT ANSWER &
MULTIPLE CHOICE**

Sort Land or Water?

What is the water like in a swamp habitat?

#5



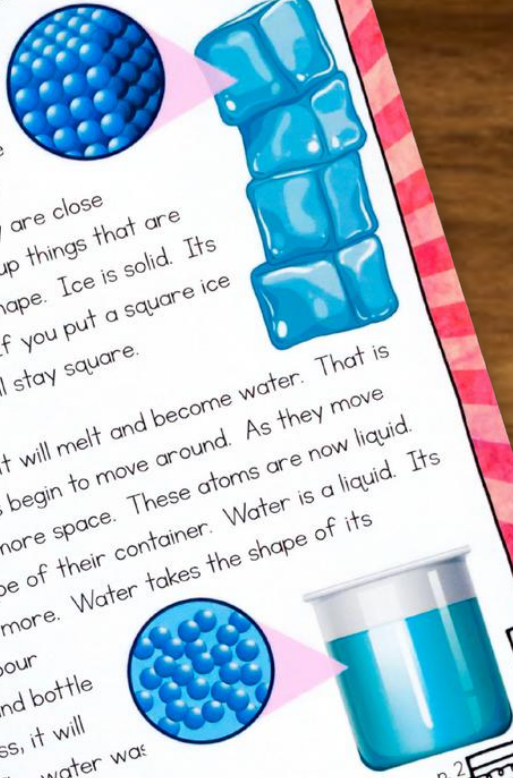
Sort

Which State Is It?

Student Instructions

All matter is made up of atoms. Atoms are very small pieces. Atoms make up matter. They are always moving. Sometimes they move around only a little. They are close together. These atoms make up things that are solid. Solids stay the same shape. Ice is solid. Its atoms are close together. If you put a square ice cube in a round glass, it will stay square.

If you warm up ice, it will melt and become water. That is because warmer atoms begin to move around. As they move around, they take up more space. These atoms are now liquid. Liquids take the shape of their container. Water is a liquid. Its atoms move around more. Water takes the shape of its container. If you pour water from a round bottle into a square glass, it will change shape. The water was in a bottle. It is



p. 2

Sort

Which State Is It?

Name: _____

- The three states of matter are solid, liquid, and gas.
- Matter is anything that has mass and takes up space.
- Atoms are very small pieces that make up matter.
- Atoms in a solid move only a little. They stay close together.
- Atoms in a gas move very fast and spread out. They fill up their container.

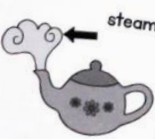
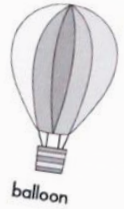
gas matter atoms states solid

Sort

Natural Disasters

Today, you are going to look at pictures of different things. You are going to decide which state of matter each thing is. Place the picture into its correct box.

Name: _____

Solid	Liquid	Gas
 phone  pencil  rock  notebook	 rain  paint  	 steam  balloon  wind  

© Jessica Boschen & Jill Elliott "What I Have Learned"



ocean wave
 
tea
 
pinwheel

Sort

Which State Is It?

Student Instructions

These two pictures have something in common:



Each picture has solids, liquids, and gases. Solid, liquid, and gas are **three** states of matter. Anything that has mass and takes up space is matter. If we weigh it, it has mass. If we measure its volume, it takes up space.



Sort

Which State Is It?

Student Instructions

All matter is made up of atoms. Atoms are very small pieces. Atoms make up matter. They are always moving. Sometimes they move around only a little. They are close together. These atoms make up things that are solid. Solids stay the same shape. Ice is solid. If you put a square block in a round glass, it will stay square.



If you warm up ice, it will melt and become water because warmer atoms begin to move around. As they move around, they take up more space. These atoms are now moving around more. Water is a liquid. Liquids take the shape of their container. Water takes the shape of its container. If you pour water from a round bottle into a square glass, it will change shape. The water was round in the bottle. It is now square in the glass.



Sort which State Is It?

1. What are the states of matter?
Three states of matter are solid, liquid, and gas.

2. What is matter?
Matter is anything that has mass and takes up space.

3. What are atoms?
Atoms are very small pieces that make up matter.

4. How do atoms move when they are in a solid?
Atoms in a solid move only a little. They stay close together.)

5. What makes something move?
Atoms in a gas move fast. They fill up their container.

Sarah James

MP3 AUDIO

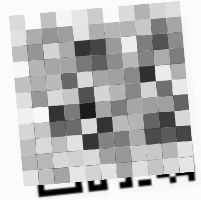


Sort

Which State Is It?

MP3 QR Codes

Use your device and scan the QR Code or enter the web address below. Listen to the audio while you follow along and read the text.



DIGITAL VERSIONS

Sort

Digital Resources

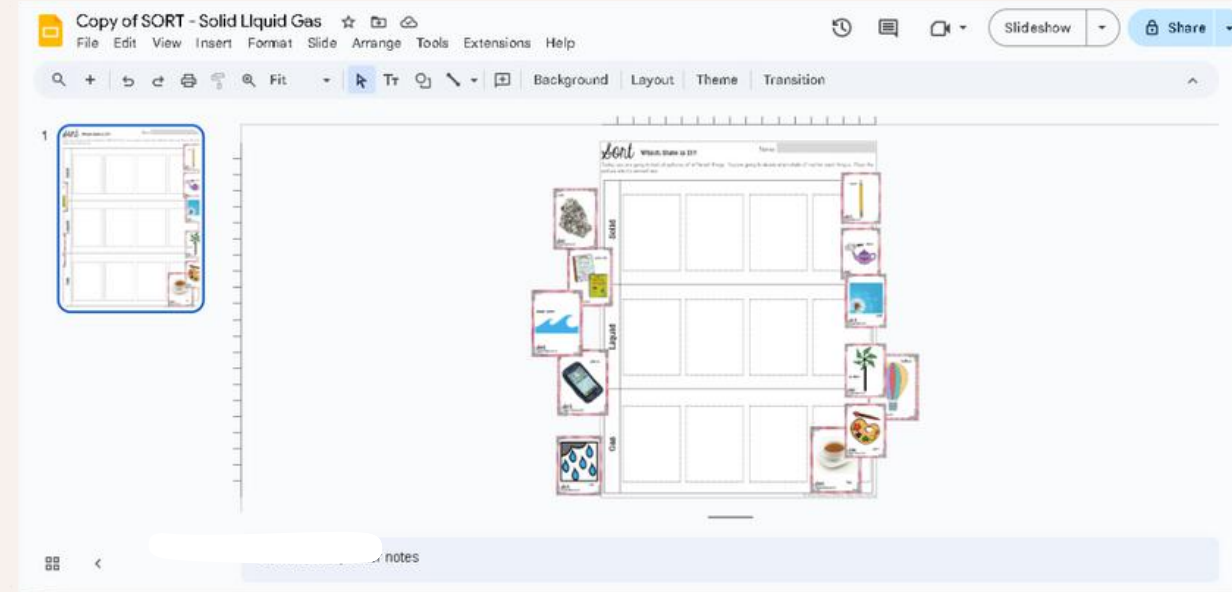
[Google Slides](#)
When you click on the link you will be asked to COPY the document to your Google Drive. The Google Slides resources have the sort worksheet with color cards.

[Google Form](#)
The Google Form has the reading passage and differentiated questions. You will need to delete or rearrange the questions on the Google form to select which questions you want your students to answer. Each question number is identical. So #1 in the short answer is the same as #1 in the multiple choice and #1 in the fill-in-the-blank. Choose the questions you want students to answer by rearranging them in the form.

The Answer Key is at the end of this PDF, not in the Google documents.

Click here to copy the [GOOGLE SLIDES](#)

Click here to copy the [GOOGLE FORM](#)



SORT

Science Station

SORT: Which State is It?

Objective: Students will read an article and sort pictures into different types of energy. After the sort, students answer questions about the reading and sort.

Student Name _____

Your answer _____

DIGITAL VERSIONS

- ✓ Google Sheet with Activity & Directions
- ✓ Google Form with Reading & Questions

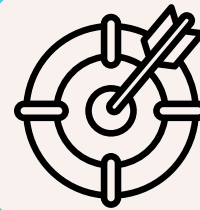
Answer keys provided

YOU WILL LOVE THIS BECAUSE



Makes Science Visual and Hands-On

Students learn better when they can see and manipulate real-world examples—this sort activity makes concepts concrete.



Supports Vocabulary & Classification Skills

Students apply key science terms while sorting and explaining their reasoning—great for retention.



Supports Differentiated Instruction

Multiple reading levels, audio, and five response types mean every student has access to the content.

TEACHERS LOVE IT!



These resource was a fantastic addition to our unit on matter! The activities are differentiated and all students were actively engaged.

Wendy N.



This resource gave a ton of activities and things to do with the states of matter.

Michelle E.



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**