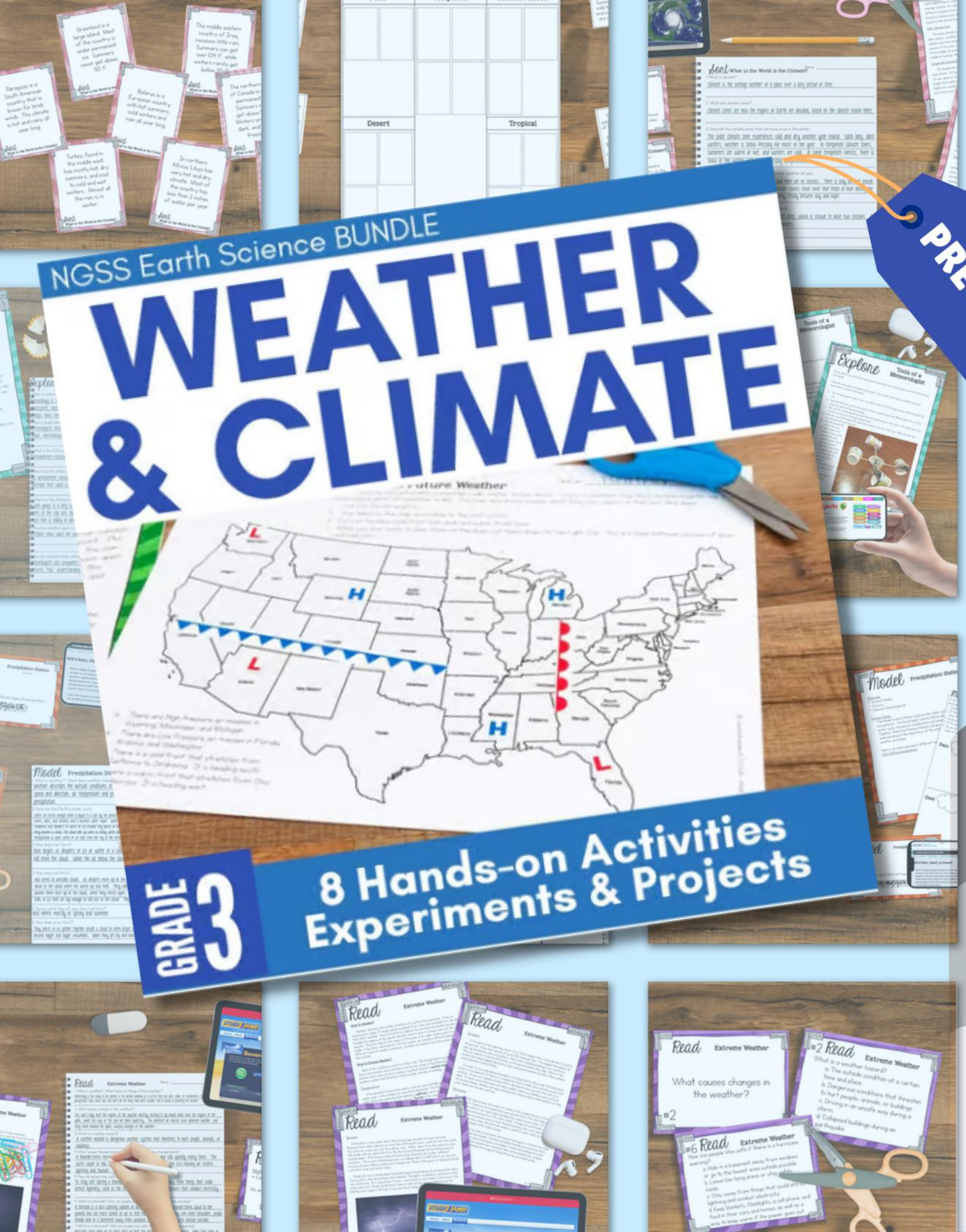


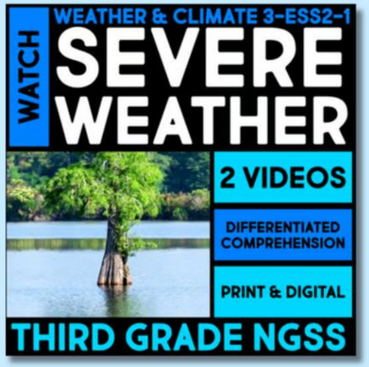
Weather & Climate Made Meaningful

3RD GRADE

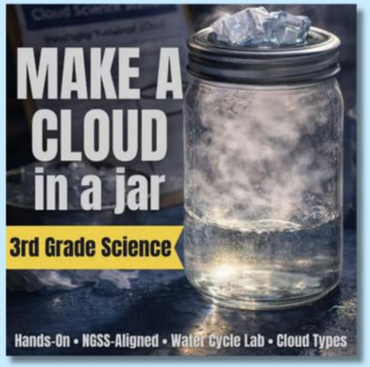
WEATHER & CLIMATE BUNDLE

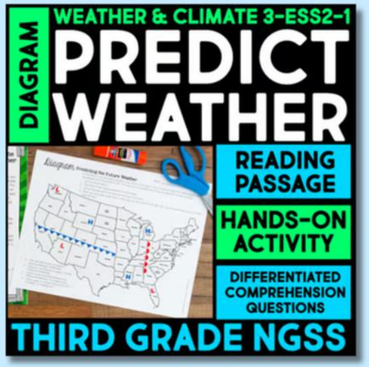
KEEP SCROLLING TO SEE WHAT'S INSIDE!

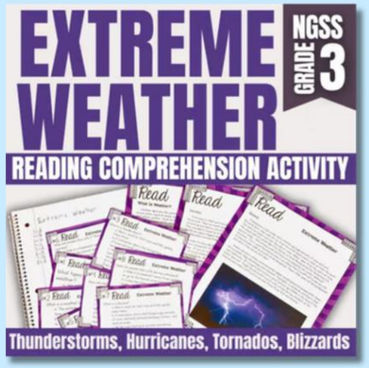
WHAT'S INCLUDED IN THE BUNDLE?

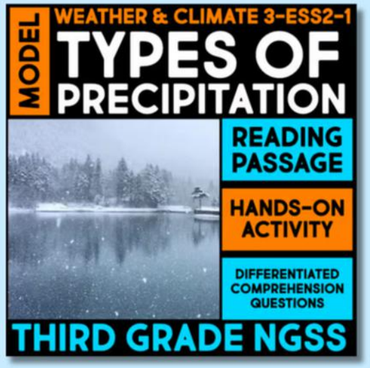


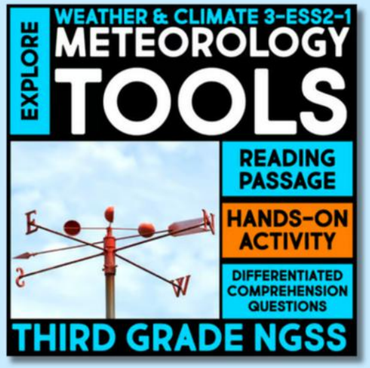


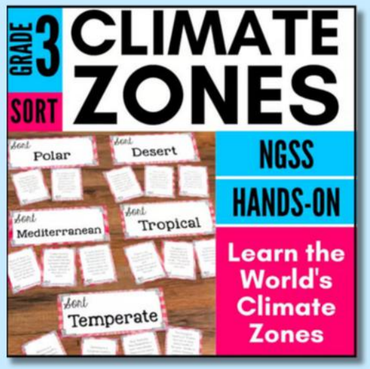












- 8 Science Stations aligned with the NGSS for 3rd grade
- 6 Reading passages
- Hands-on activities
- Differentiated comprehension questions
- Digital Videos & Video Games
- Digital Google Slides & Forms

6 READING PASSAGE

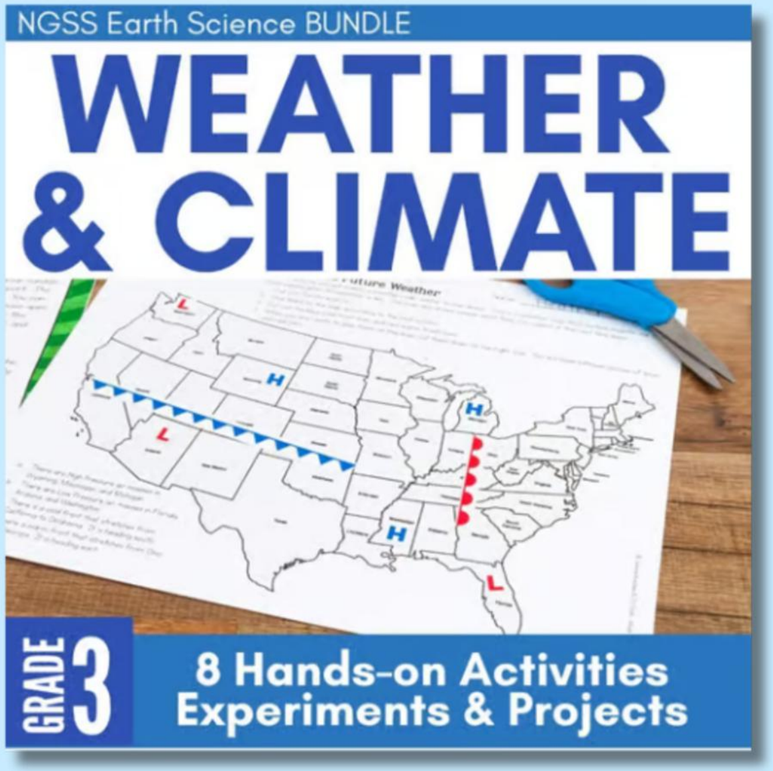


6 Reading Passages that provide all scientific background knowledge for each station

Available in two formats + Digital

Includes pictures and visuals

PAGE OVERVIEW



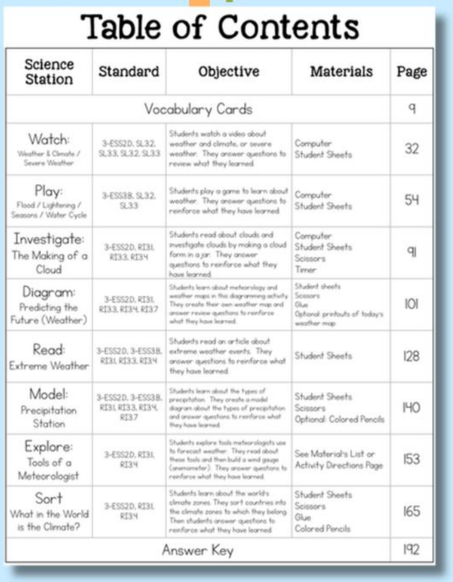


Table of Contents

Science Station	Standard	Objective	Materials	Page
Vocabulary Cards				9
Watch: Weather & Climate / Severe Weather	3-ESS2D, SL.3.2, SL.3.3, SL.3.2, SL.3.3	Students watch a video about weather and climate, or severe weather. They answer questions to review what they learned.	Computer Student Sheets	32
Play: Flood / Lightning / Seasons / Water Cycle	3-ESS3B, SL.3.2, SL.3.3	Students play a game to learn about weather. They answer questions to reinforce what they have learned.	Computer Student Sheets	54
Investigate: The Making of a Cloud	3-ESS2D, RI.3.1, RI.3.3, RI.3.4	Students read about clouds and investigate clouds by making a cloud form in a jar. They answer questions to reinforce what they have learned.	Computer Student Sheets Scissors Timer	91
Diagram: Predicting the Future (Weather)	3-ESS2D, RI.3.1, RI.3.3, RI.3.4, RI.3.7	Students learn about meteorology and weather maps in this diagramming activity. They create their own weather map and answer review questions to reinforce what they have learned.	Student sheets Scissors Glue Optional: printouts of today's weather map	101
Read: Extreme Weather	3-ESS2D, 3-ESS3B, RI.3.1, RI.3.3, RI.3.4	Students read an article about extreme weather events. They answer questions to reinforce what they have learned.	Student Sheets	128
Model: Precipitation Station	3-ESS2D, 3-ESS3B, RI.3.1, RI.3.3, RI.3.4, RI.3.7	Students learn about the types of precipitation. They create a model diagram about the types of precipitation and answer questions to reinforce what they have learned.	Student Sheets Scissors Optional: Colored Pencils	140
Explore: Tools of a Meteorologist	3-ESS2D, RI.3.1, RI.3.4	Students explore tools meteorologists use to forecast weather. They read about these tools and then build a wind gauge (anemometer). They answer questions to reinforce what they have learned.	See Material's List or Activity Directions Page	153
Sort: What in the World is the Climate?	3-ESS2D, RI.3.1, RI.3.4	Students learn about the world's climate zones. They sort countries into the climate zones to which they belong. Then students answer questions to reinforce what they have learned.	Student Sheets Scissors Glue Colored Pencils	165
Answer Key				192



Weather & Climate Science Stations

The Next Generation Science Standards for Earth Science are fairly narrow in scope. 3-ESS2D covers weather patterns and climate. For weather patterns in the third grade, the topics are limited to water cycle, weather patterns, and meteorology. Climate is a very limited topic at this level, as NGSS excludes instruction of climate change in third grade.

3-ESS3B covers weather hazards. For weather hazards in the third grade, topics are limited to severe weather (thunderstorms, blizzards, hurricanes, tornadoes, and freezing rain) and weather hazard mitigation.

If we were to separate the two standards into two sets of stations, each set of stations would have to have had several overlapping topics in order to create the eight station sets. In order to avoid redundancy, we are offering these three topics from two standards in one set of stations. However, we are also offering a supplementary set of stations solely focusing on Weather Hazards.

If your aim is to ensure your students have a solid foundation for the 3rd grade NGSS for Earth Science, this set of stations is sufficient. If, however, you would like to explore weather hazards in greater depth, we suggest you purchase the supplementary Weather Hazards stations.

These Science Stations have several different ways students can display their understanding. Most of the variations are similar to each other, but differentiated for various classrooms and learning styles. Included are worksheets for both short-answer and fill-in-the-blank, and task cards for both short-answer and multiple choice responses. To provide even more support, give students a word list for the fill-in-the-blank options. Also included are vocabulary cards in two formats which could become a ninth station if needed.

Students are encouraged to use their Science Journals with the task cards, but worksheets are provided as well. Use the checklist to monitor student progress through the stations.

The Science Stations are designed to last about 20 minutes each. Students may do one a day for 8 days or 2 a day for four days. The following checklists will help you organize the stations.

Watch a Video
Students watch a video about weather and climate, or severe weather. They answer questions to review what they learned.

Play a Video Game
Students play a game to learn about extreme weather. They answer questions to reinforce what they have learned. Note: There are four video games.

Investigate
Students read about clouds and investigate clouds by making a cloud form in a jar. They answer questions to reinforce what they have learned.

Draw a Diagram
Students learn about meteorology and weather maps in this diagramming activity. They create their own weather map and answer review questions to reinforce what they have learned.

Read a Passage
Students read an article about extreme weather events. They answer questions to reinforce what they have learned.

Create a Model
Students learn about the types of precipitation. They create a model diagram about the types of precipitation and answer questions to reinforce what they have learned.

Explore
Students explore tools meteorologists use to forecast weather. They read about these tools and then build a wind gauge (anemometer). They answer questions to reinforce what they have learned.

Sort
Students learn about the world's climate zones. They sort countries into the climate zones to which they belong. Then students answer questions to reinforce what they have learned.



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.

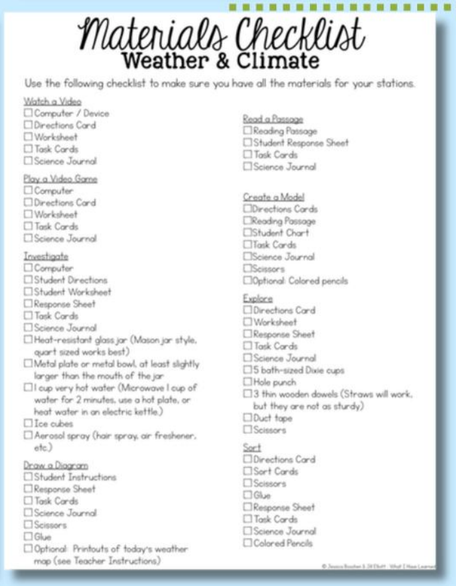
Draw a Diagram
Students draw and label a diagram specific to certain requirements. Students then explain how their diagram meets the requirements.

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 question 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
Weather & Climate

Use the following checklist to make sure you have all the materials for your stations.

Watch a Video
- ☐ Computer / Device
- ☐ Directions Card
- ☐ Worksheet
- ☐ Task Cards
- ☐ Science Journal

Play a Video Game
- ☐ Computer
- ☐ Directions Card
- ☐ Worksheet
- ☐ Task Cards
- ☐ Science Journal

Investigate
- ☐ Computer
- ☐ Student Directions
- ☐ Student Worksheet
- ☐ Response Sheet
- ☐ Task Cards
- ☐ Science Journal
- ☐ Heat-resistant glass jar (Mason jar style, quart sized works best)
- ☐ Metal plate or metal bowl, at least slightly larger than the mouth of the jar
- ☐ 1 cup very hot water (Microwave 1 cup of water for 2 minutes, use a hot plate, or heat water in an electric kettle.)
- ☐ Ice cubes
- ☐ Aerosol spray (hair spray, air freshener, etc.)

Draw a Diagram
- ☐ Student Instructions
- ☐ Response Sheet
- ☐ Task Cards
- ☐ Science Journal
- ☐ Scissors
- ☐ Glue
- ☐ Optional: Printouts of today's weather map (see Teacher Instructions)

Read a Passage
- ☐ Reading Passage
- ☐ Student Response Sheet
- ☐ Task Cards
- ☐ Science Journal

Create a Model
- ☐ Directions Cards
- ☐ Reading Passage
- ☐ Student Chart
- ☐ Task Cards
- ☐ Science Journal
- ☐ Scissors
- ☐ Optional: Colored pencils

Explore
- ☐ Directions Card
- ☐ Worksheet
- ☐ Response Sheet
- ☐ Task Cards
- ☐ Science Journal
- ☐ 5 bath-sized Dixie cups
- ☐ Hole punch
- ☐ 3 thin wooden dowels (Straws will work, but they are not as sturdy)
- ☐ Duct tape
- ☐ Scissors

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

Unit Overview

Science Station Details

Materials Checklist

Science Station Overview

ONLY IN THE BUNDLE

climate

the average weather of a place over a long period of time

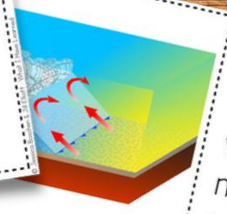
cloud

a large group of tiny droplets of water or ice crystals that float in the air



climate zone

division of the Earth, based on the climate found there



cold front

where a cold air mass meets and replaces a warm air mass



meteorology

the study of the atmos

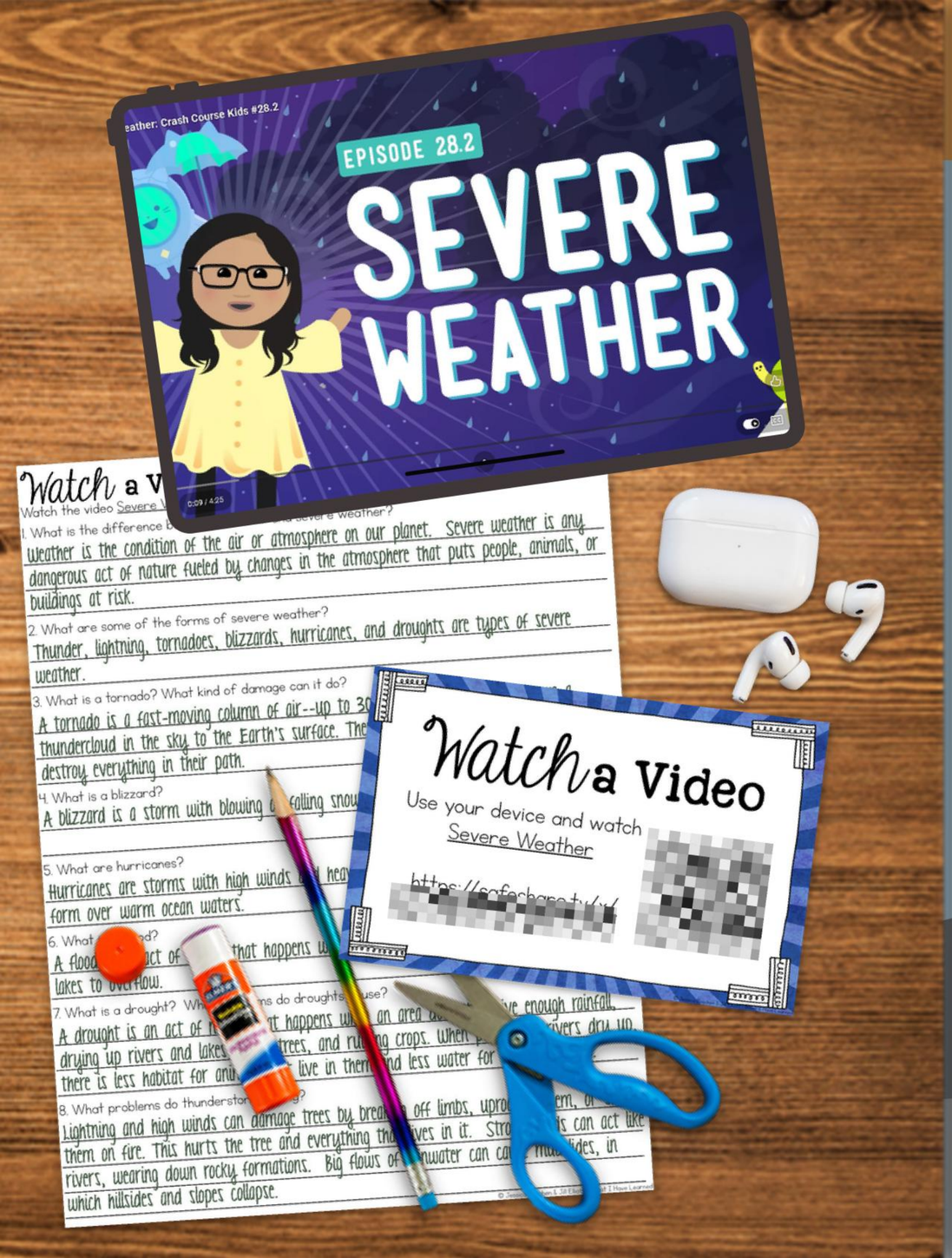


thunder

the sound that is made from the lightning bolt

VOCABULARY CARDS WITHOUT PICTURES

VOCABULARY CARDS WITH PICTURES



WATCH STATION

STUDENTS WATCH ONE OF TWO VIDEOS AND THEN ANSWER QUESTIONS ABOUT THE VIDEOS. VIDEOS ARE ABOUT ATOMS AND MOLECULES.

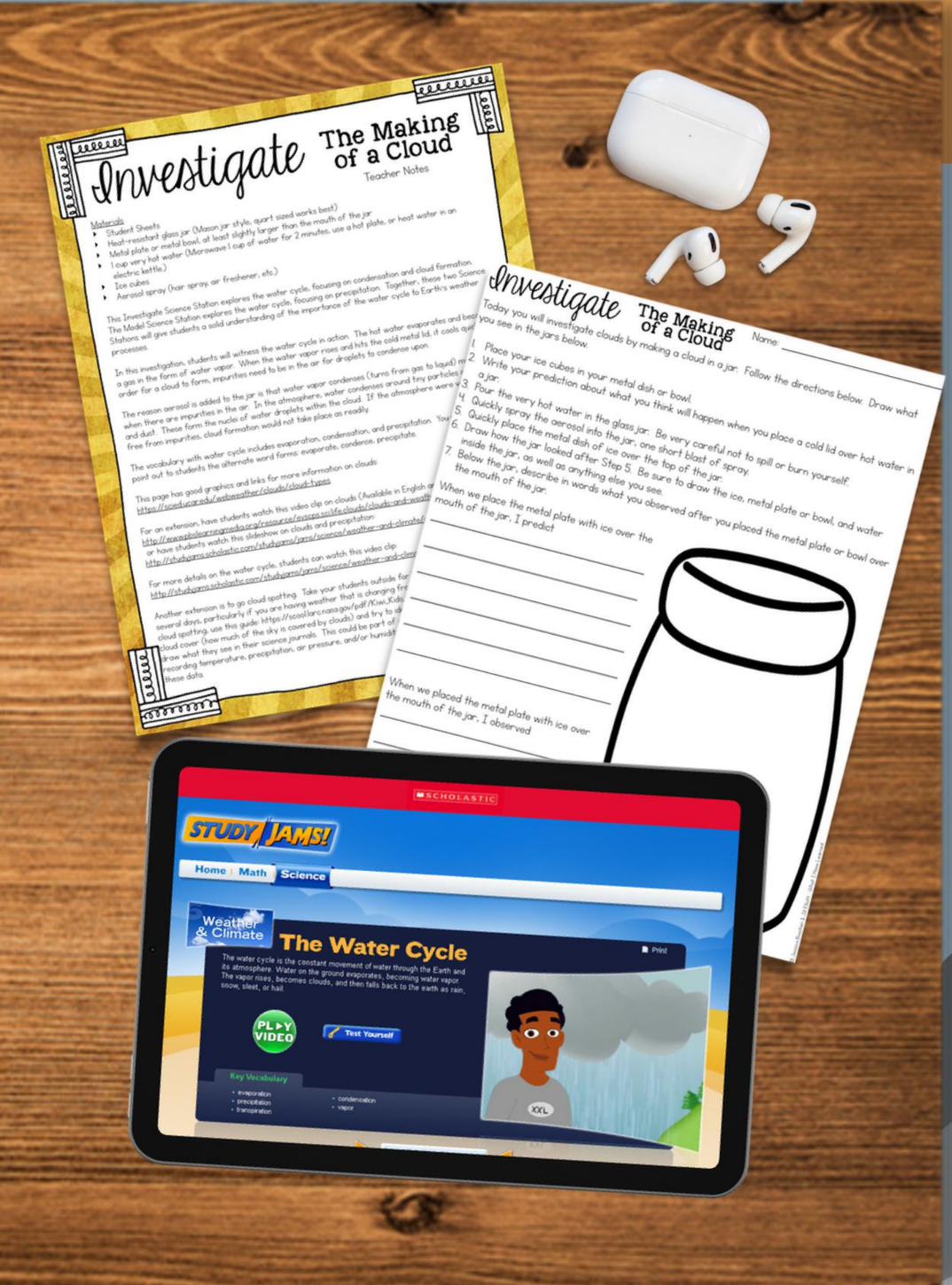
> "What a great way to open up our weather unit. Thank you so, so much!"
> - Jessica O.

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.

> "It is no-prep and hassle-free. Highly recommended!"
> - Geneva P.





INVESTIGATE STATION

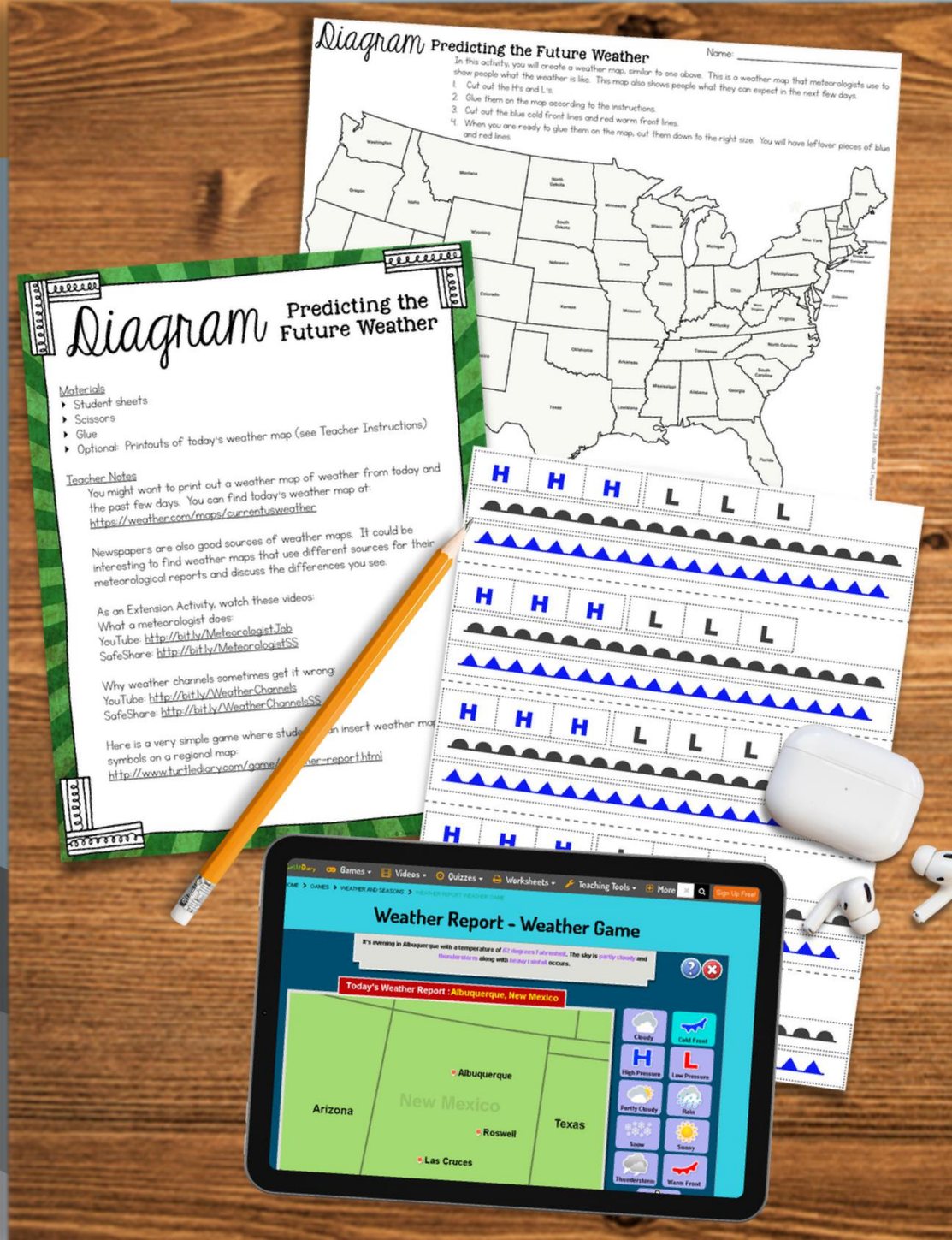
STUDENTS CONDUCT AN INVESTIGATION ON CLOUDS AND ANSWER QUESTIONS.

> This was so much fun! You should have seen the students' faces with the cloud in the jar!
> - Emily M.

DIAGRAM STATION

STUDENTS DIAGRAM METEOROLOGY AND WEATHER MAPS AND ANSWER QUESTIONS ABOUT THE DIAGRAM.

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





READ STATION

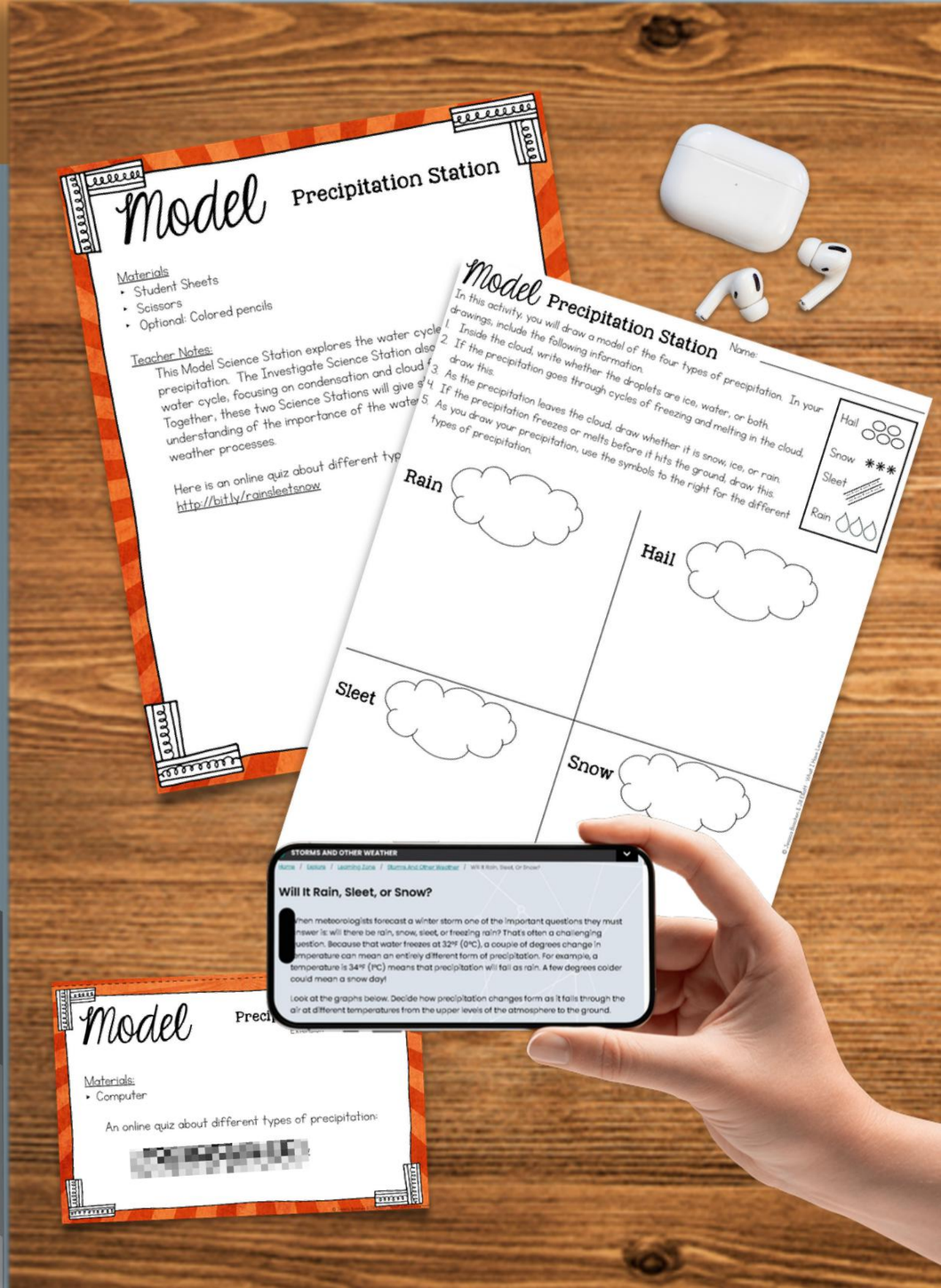
STUDENTS READ A PASSAGE ABOUT EXTREME WEATHER EVENTS AND ANSWER QUESTIONS.

> "This resource is well made an easy to use. Thank you."
> - Angela V.

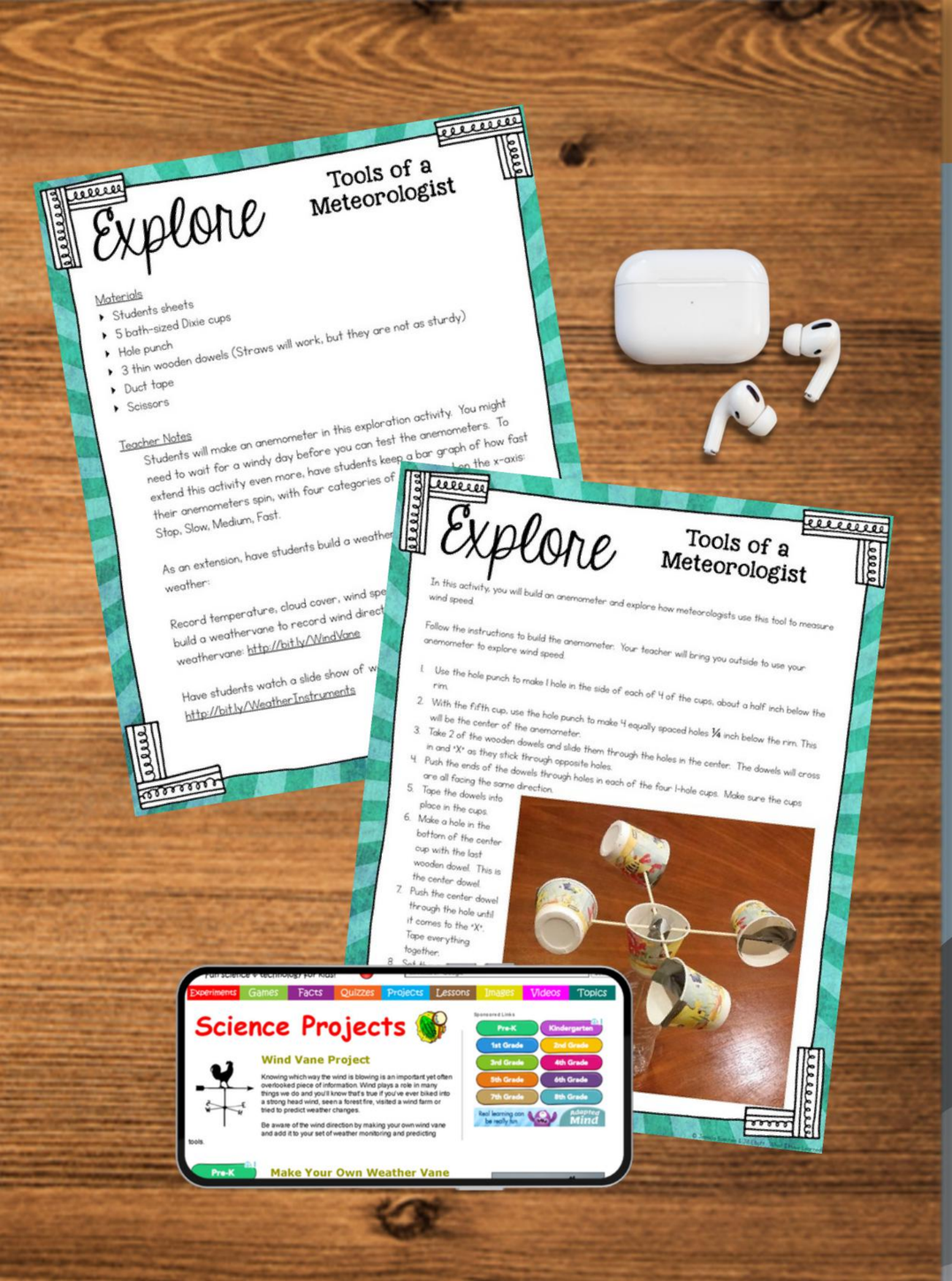
MODEL STATION

STUDENTS MAKE A MODEL OF TYPES OF PRECIPITATION AND ANSWER QUESTIONS.

> "Students loves the materials I highly recommend to all teachers"
> - Betheney S.



EXPLORE STATION



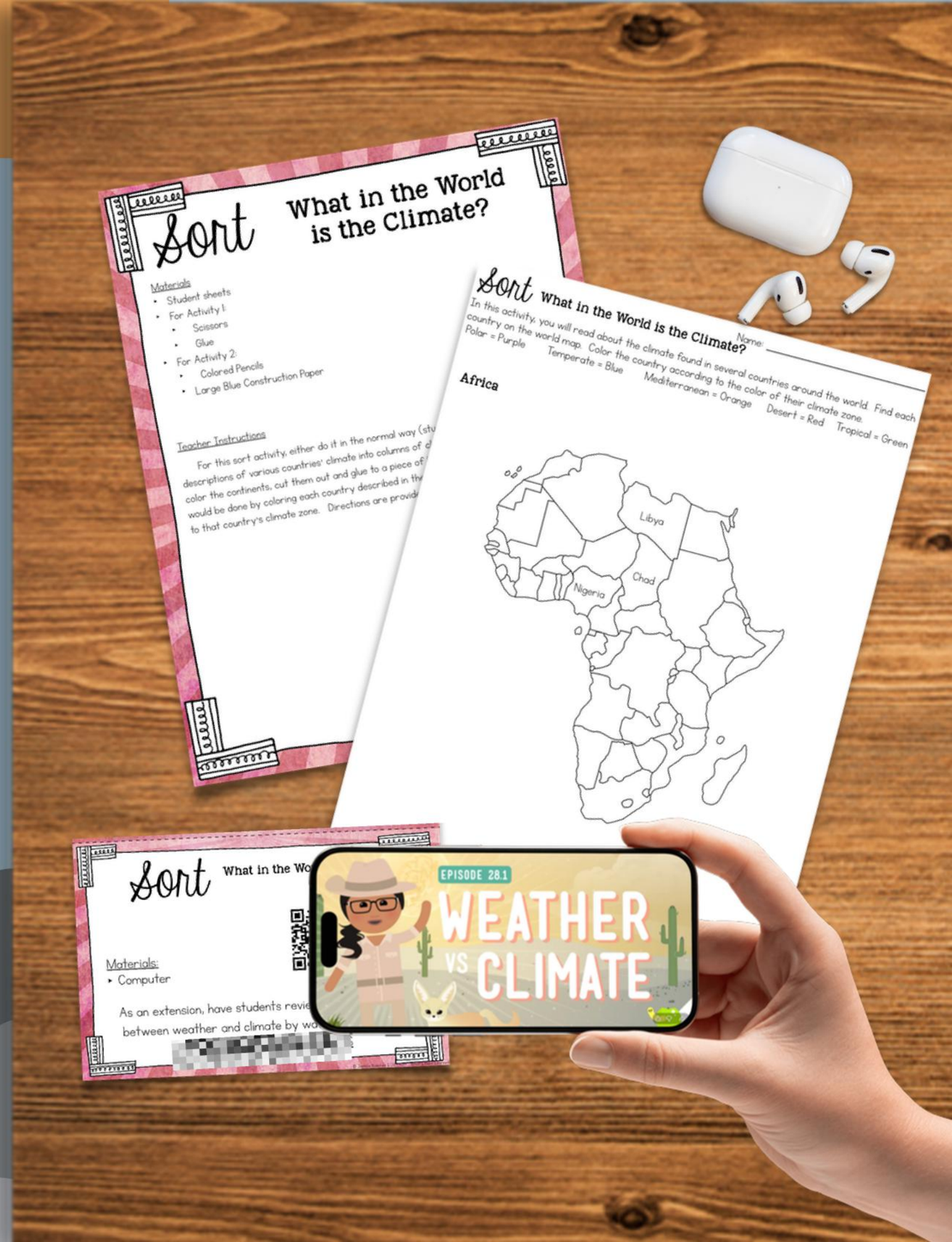
STUDENTS READ WEATHER TOOLS METEOROLOGISTS USE TO FORECAST WEATHER. THEY CREATE A WORKING ANEMOMETER.

> "This resource was awesome as a supplement to our weather unit- my students absolutely loved making their own anemometers!"
>
> - Kelly

SORT STATION

STUDENTS READ CLIMATE ZONES. THEY SORT DESCRIPTIONS OF PLACES INTO EACH CLIMATE ZONE. STUDENTS THEN ANSWER QUESTIONS.

> This was a great resource to help students understand different climates and zones.
> - Victoria R.



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

WEATHER & CLIMATE 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



High Student Engagement

Games, experiments, modeling, and sorting activities keep students actively involved instead of passively completing worksheets.



Comprehensive NGSS Alignment

Covers essential 3rd-grade weather and climate standards through structured, inquiry-based stations that build deep conceptual understanding.



Hands-On + Digital

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

TEACHERS LOVE IT!

"My students and I enjoyed all the ways they got to learn about weather and climate in this resource. We did each "station" whole class over a period of a couple weeks. Thank you for this engaging resource!"

Kristin N.

"This resource has a lot of different things to implement into your weather unit or just print and use. My students enjoyed the activities and I will use this again when teaching this grade/content. "

Kelly M.





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