# TEACHING POWERPOINT



## 5 IN-DEPTH TOPICS

- Water & Weather
- Weather Patterns
- Weather Instruments
- Natural Weather Hazards
- Climate Zones
- Climate Change





# **EACH LESSON INCLUDES:**



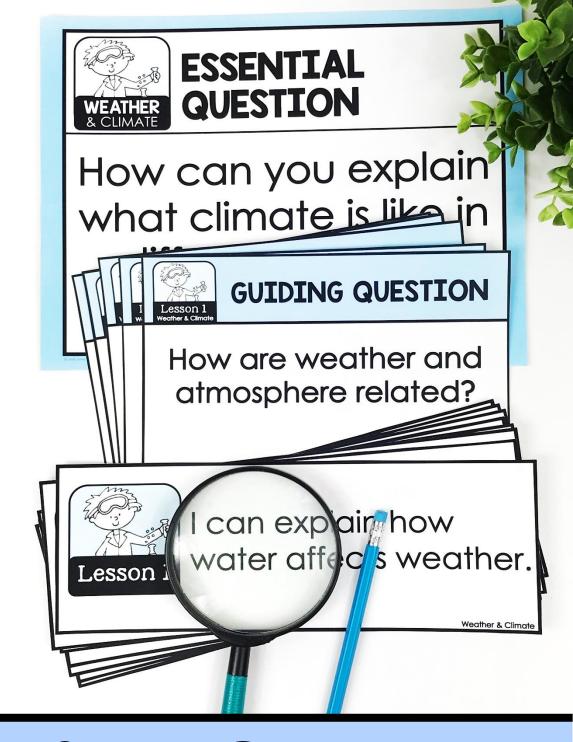
#### Aligned to

Next Generation Science Standards, TEKS

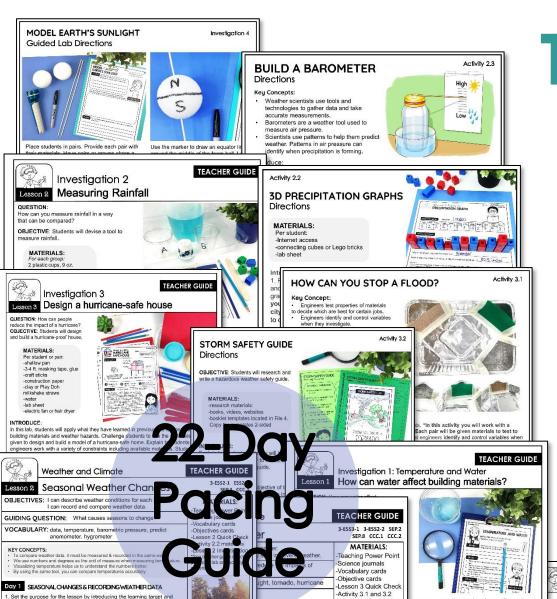
and

Common Core State Standards

for 3<sup>rd</sup> Grade



# STANDARDS-ALIGNED



cts and prevent damage

Il learn the difference

ather. We'll start by

ent kinds of severe

rstand the difference

xt, show student the

ds of weather

lucing the learning

WEATHER & CLIMATE

Tell students, "Weather is an important part of everyone's life. It affects what we wear, what we do, and how and where we live our

lives. In this lesson we'll explore weather cycles. These cycles are called seasons. In this lesson, you'll learn why seasons occur and

. Project the PowerPoint. Introduce the lesson vocabulary on the first slide

Slide the clouds to reveal the definition of each word then use each in a

4 Read the lesson slides to students allowing time to look at the photos

5. Introduce Activity 2.2. (3D Precipitation Graphs) Use the activity

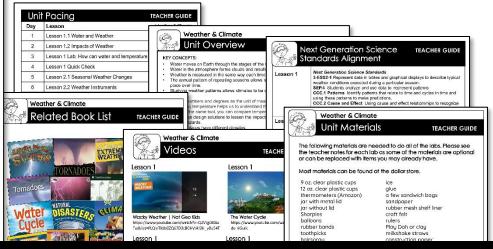
lirections page to introduce the activity and set the purpose

now the Sun and the Earth's tilt affects them.

Continue working through the slides up to Activity 2.2

# **TEACHER GUIDE**

Scripted lesson plans
Lesson objectives
Performance tasks
Teacher's notes
Management tips
Lab procedures
Extension activities
Assessments



# DETAILED LESSON PLANS

tract, or get smaller, as they freeze, Frozen

es un if you freeze it?

day we are going to explore the effects water materials a home is made of."

full. Add a drop of food coloring (optional). Draw

the data table. (ex. Day 1, room temp/ half full)

water level. Record the changes in the data

ed water line and compare it to the original

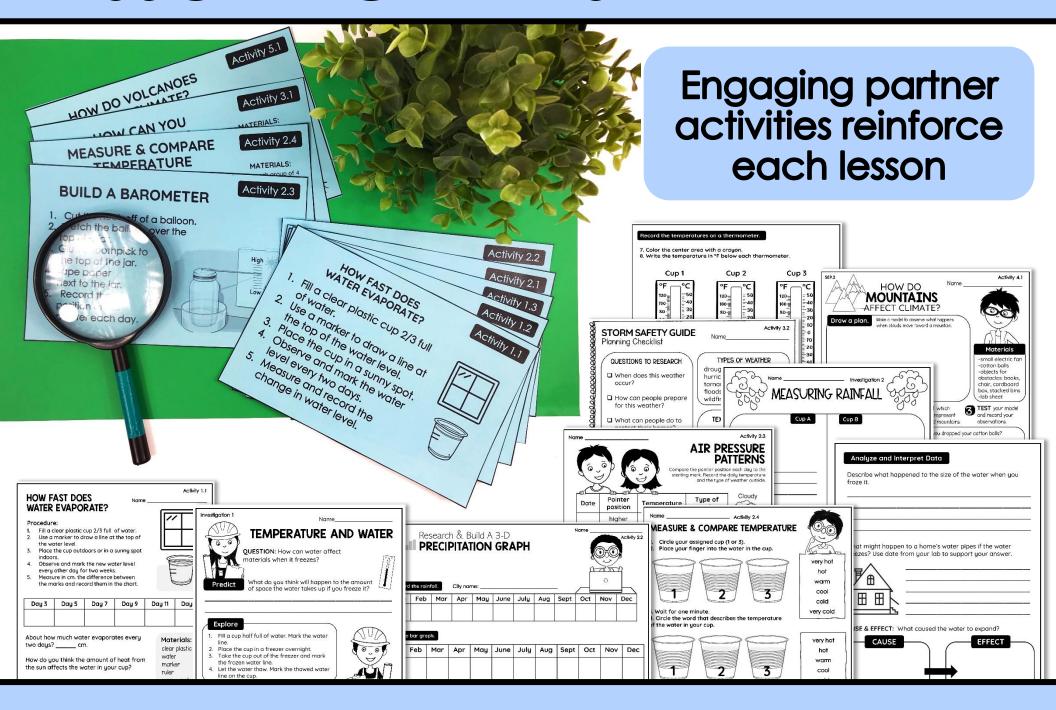
the volume of the water to changed. Students

I esson 3 Investigation

See teacher guide

pages for lab and activity

# LESSON ACTIVITIES



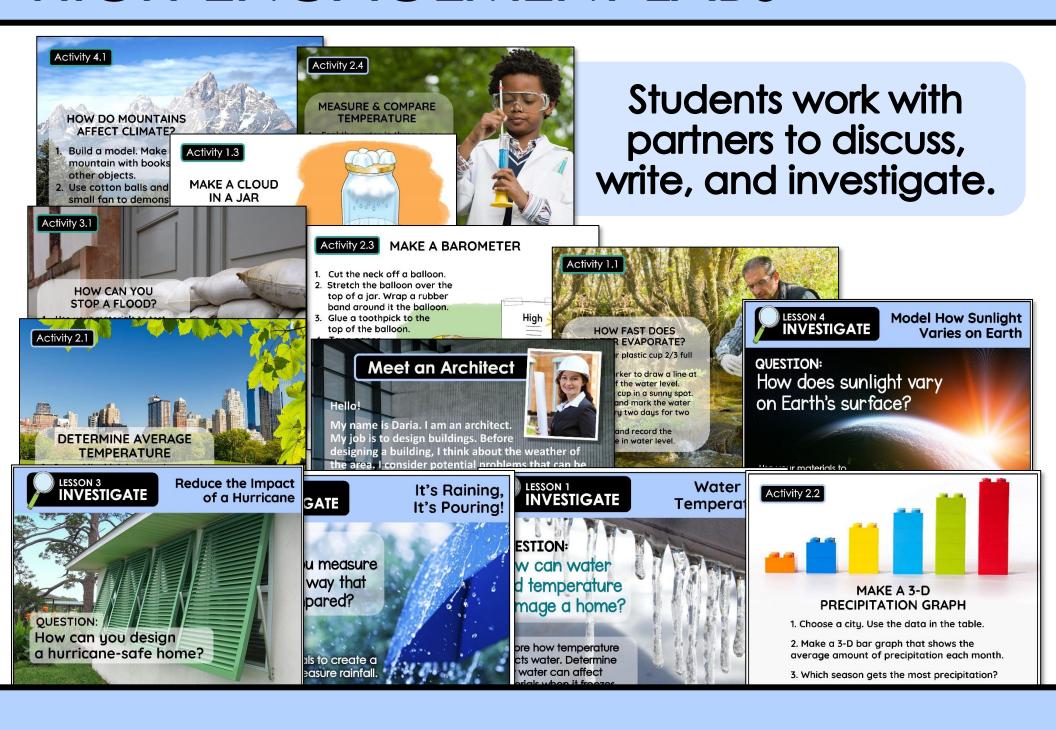
# 8 HANDS-ON INVESTIGATIONS



#### **STUDENTS EXPLORE:**

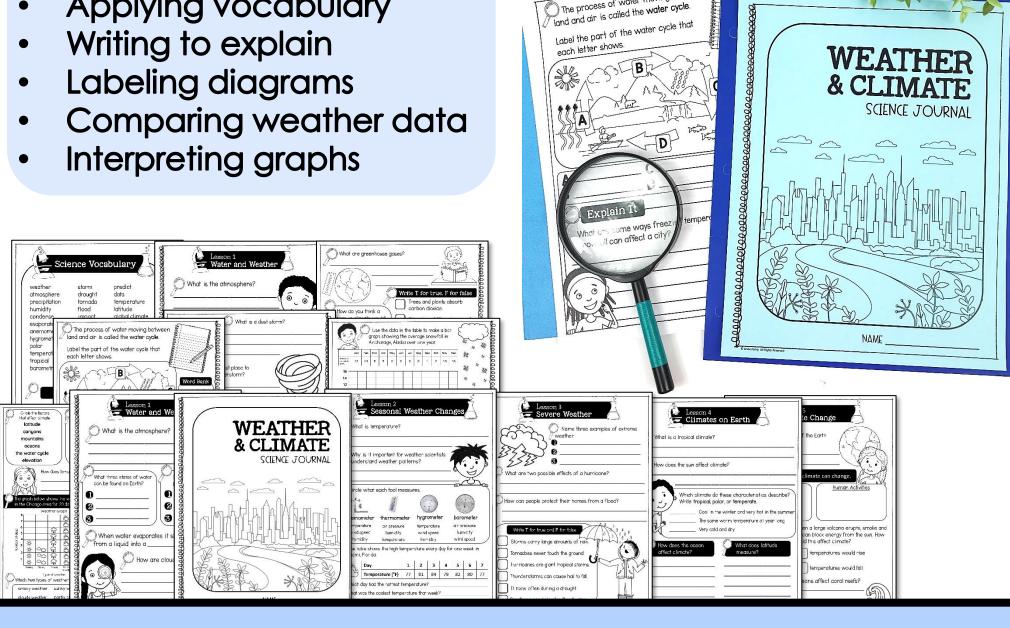
- Identifying weather patterns
- Comparing weather data
- Modeling Earth's sunlight
- Reducing the impacts of weather hazards
- Measuring rainfall
- The water cycle
- Simulating a flood
- How mountains affect climate
- Designing solutions to weather-related problems

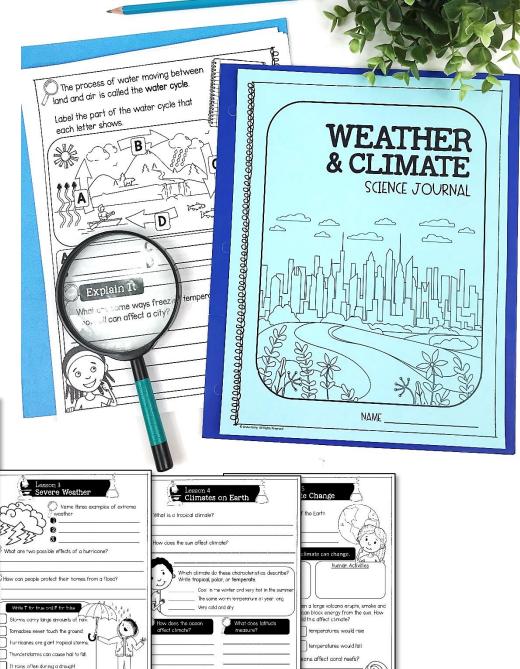
#### HIGH-ENGAGEMENT LABS



#### **SKILLS INCLUDED:**

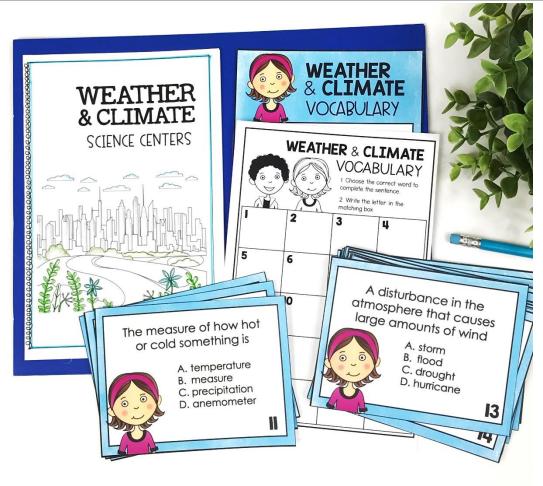
Applying vocabulary





# LESSON RESPONSE JOURNAL

## LITERACY-BASED SCIENCE CENTERS



Integrate science in your reading centers

Use them as lesson extensions or for early finishers



Integrate science in your reading centers



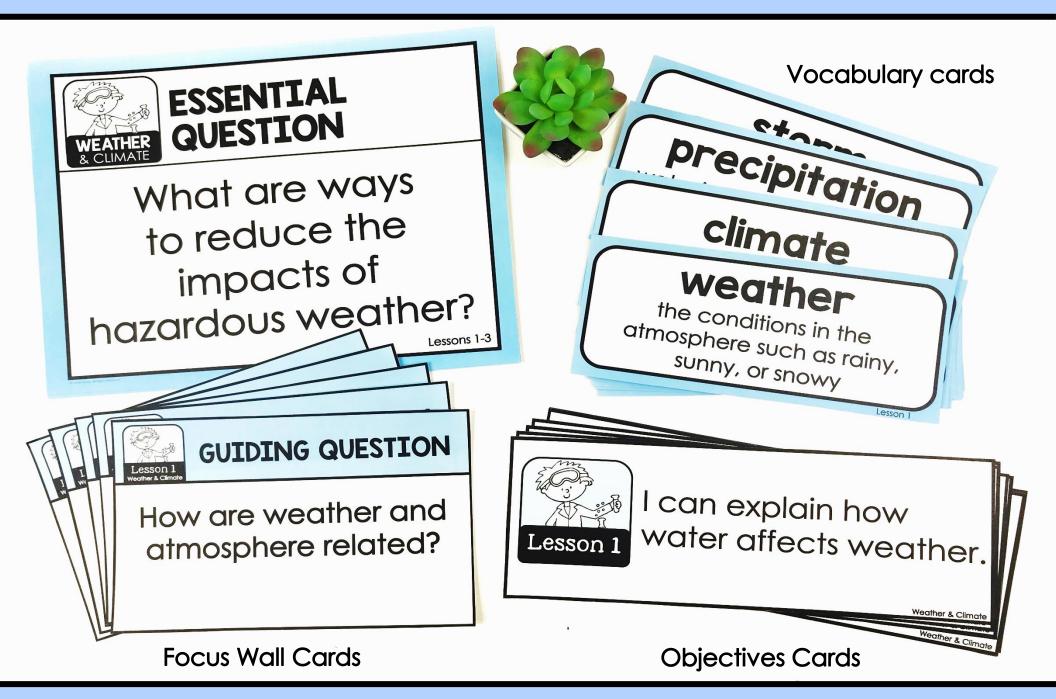
#### Practice

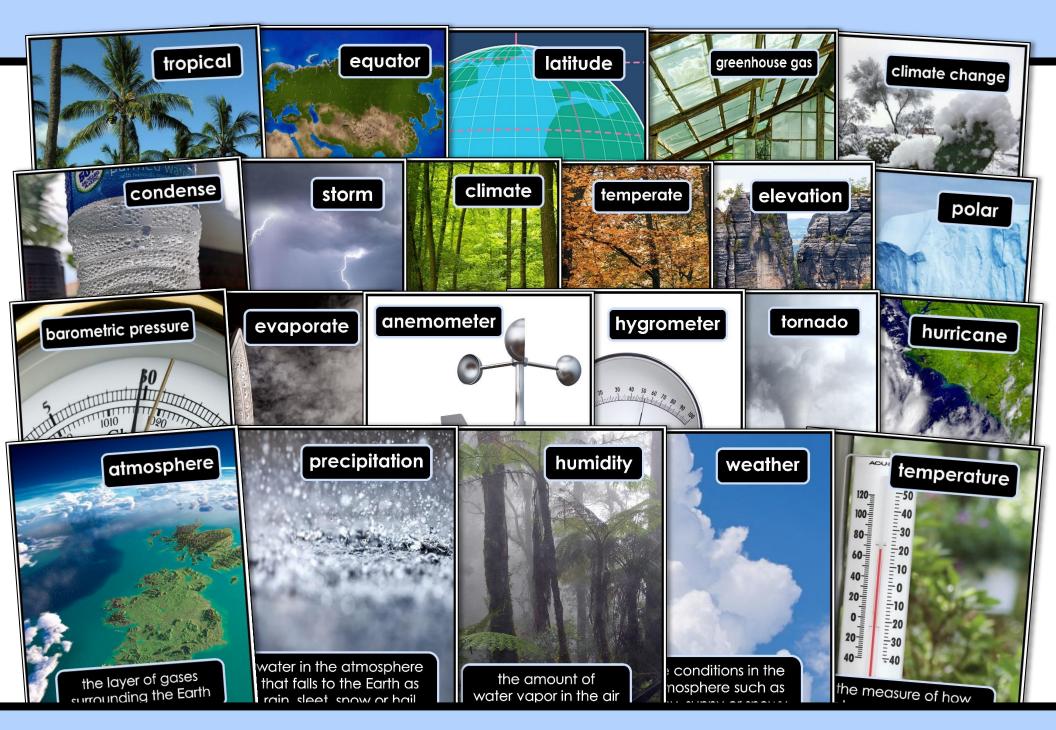
MATH & LITERACY SKILLS

#### Reinforce SCIENCE CONTENT



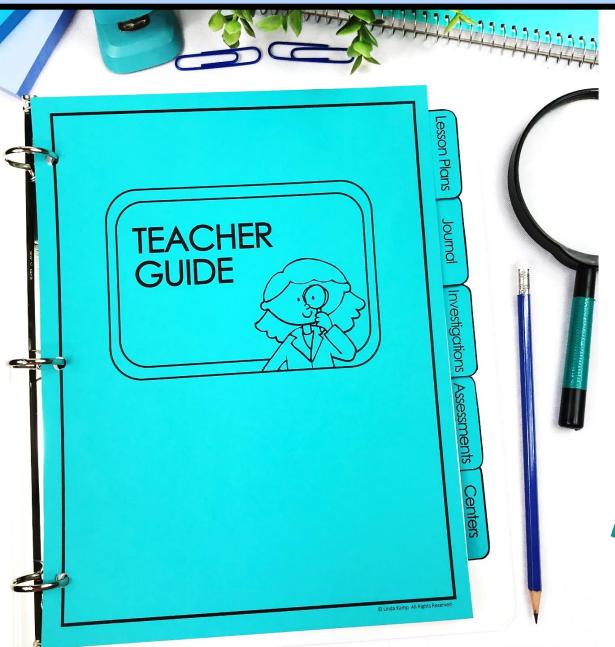
# LESSON SUPPORT





Full Page Vocabulary Posters

# **TEACHER GUIDE & UNIT BINDER**



Organize your unit in a handy planning binder

#### Binder includes:

- cover & spines
- section dividers
- divider tabs

PLAN, TEACH & ASSESS an in-depth and effective unit



# LAB MATERIALS PREVIEW

The following materials are needed to do the labs and experiments. Most items are available at the dollar store. This list is included in the unit.

9 oz. clear plastic cups 12 oz. clear plastic cups thermometers (Amazon) jar with metal lid jar without lid

Sharpies

balloons

rubber bands

toothpicks

hairspray

connecting cubes or Legos

shallow aluminum pans

small paper cups

popsicle sticks

water

pitcher or jug for water

masking tape

ice

glue

a few sandwich bags

sandpaper

rubber mesh shelf liner

craft felt

rulers

Play Doh or clay

milkshake straws

construction paper

small electric fan or hair dryer

cotton balls

foam balls

wooden skewers (Walmart)

flashlight

plastic lunchmeat size containers

#### **Optional:**

blue food coloring chenille sticks colored beads





## Ready to teach science lessons



# STUDENTS GAIN AN UNDERSTANDING OF:

- How water affects weather
- The water cycle
- Seasonal weather changes
- Reducing the impact of hazardous weather
- Comparing weather data
- Earth's climate zones
- Factors that affect climate
- Developing and testing models
- Drawing diagrams
- Using texts and other media to answer scientific questions

#### Save on the PRINT & DIGITAL BUNDLE

