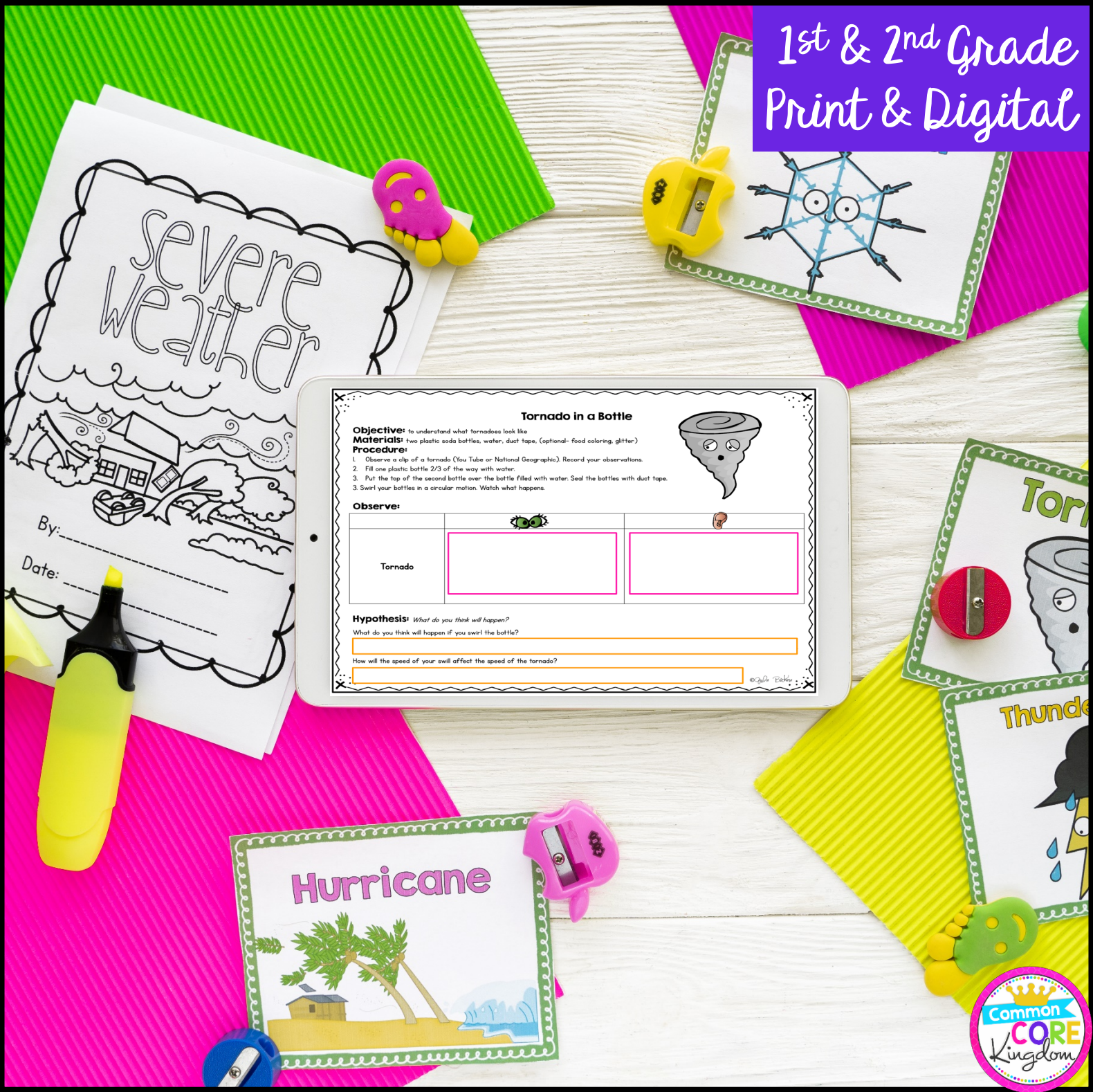
Science: Severe Weather

1st & 2nd Grade
Print & Digital

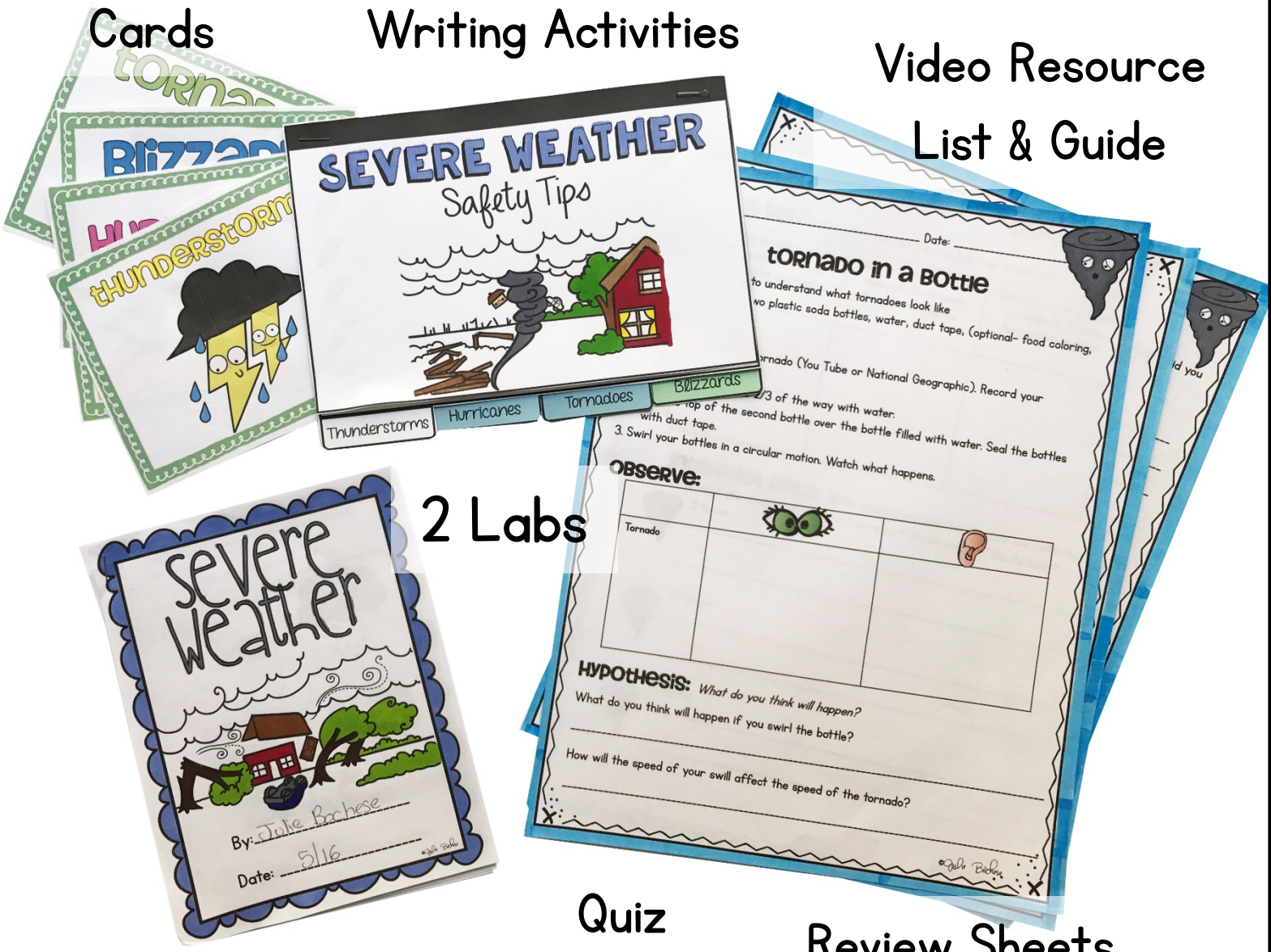


What's Included:

Vocabulary Cards

Writing Activities

Video Resource List & Guide



2 Labs

Quiz

Review Sheets

Student Book

Tornado in a Bottle
Date:
to understand what tornadoes look like
two plastic soda bottles, water, duct tape, (optional- food coloring,
of a tornado (You Tube or National Geographic). Record your
of the way with water.
over the bottle filled with water. Seal the bottles
Watch what happens.
bubbles.
you collected. What
the tornado?
Draw a picture of your experiment:
Show What You Know
Directions: Complete the following prompts for the video you just watched.
List 3 things you learned from watching the video:
1.
2.
3.
Ask 2 questions you still have about the things you learned:
1.
2.
Say one thing you like most or found most interesting in the video:
1.
°F °C

Blizzard
Hurricane
Thunderstorm
Tornado in a Bottle
Name:
Date:
Objective:
Materials:
Procedure:
Observe:
Tornado
Hypothesis:
Reflections:
Draw a picture of your experiment:

Severe Weather

Table of Contents

1. Video Resources and Teacher Aid (2 pg.)
2. Vocabulary Cards (1 pg.)
3. Brainstorm Blocks (1 pg.)
4. Weather Watch (2 pgs.)
5. Severe Weather Mini Book (10 pgs.)
6. Severe Weather Safety Tip Book (4 pgs.)
7. Stormy Story Writing Tasks (4 pgs.)
8. Tornado In a Bottle Experiment (3 pgs.)
9. Making Lightning Experiment (3 pgs.)
10. Comparison Reviews (4 pgs.)
11. Quiz (1 pg.)

Teacher Page

Recommended Video Use & Introduction Ideas

Video Usage

- Introduce the topic and vocabulary to students
- Show video #1 *after* completing "Brainstorm Blocks"
- Show video #2 *before* completing "Weather Watch"
- Show weather videos 3-6 *before* students complete each respective weather section in their books - use "Show What You Know" for Video Comprehension
- Use video #7 while completing "Tornado in a Bottle" lab
  - Also use video #8 if lab cannot be physically completed
- Use video #9 while completing "Making Lightning" Lab
  - Also use video #8 if lab cannot be physically completed

Ordering and Pacing Suggestions

1. Complete "Brainstorm Blocks" before instructing any of the content - revisit student ideas after they have learned about each type of severe weather
2. Work through each weather type one at a time, and complete the activities, lab, and book sections about that weather
3. Use "Compare & Contrast" and "Weather Safety Web" sheets to review for quiz at the end of the unit

Common CORE Kingdom

Severe Weather

By:_____

Date: _____

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Label the types of severe weather with the following words:

thunderstorm, tornado, blizzard, hurricane

Severe weather is dangerous weather.

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Flip Book Assembly Directions

1. Print enough of each flip book page for your students.
2. Cut along the dotted lines.
3. Assemble pages in order.
4. Staple book along the binding.

Name: _____ Date: _____

Stormy Story Telling

Directions: Write a short scientific fiction story about the picture below. Be sure to include a character, setting, and event. Color in the picture when you are done.

©Julie Bochkoe

Name: _____ Date: _____

Tornado in a Bottle

Objective: to understand what tornadoes look like

Materials: two plastic soda bottles, water, duct tape, (optional- food coloring, glitter)

Procedure:

1. Observe a clip of a tornado (You Tube or National Geographic). Record your observations.
2. Fill one plastic bottle 2/3 of the way with water.
3. Put the top of the second bottle over the bottle filled with water. Seal the bottles with duct tape.

3. Swirl your bottles in a circular motion. Watch what happens.

Observe:

Tornado		

Hypothesis: *What do you think will happen?*

What do you think will happen if you swirl the bottle?

_____

How will the speed of your swill affect the speed of the tornado?

_____

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Collect Data: *Complete the chart to record your observations with bubbles.*

Twirl the tornado in a bottle vigorously for 5 turns. Record what you observe.	Twirl the tornado in a bottle vigorously for 10 turns. Record what happens.	Twirl the tornado in a bottle vigorously for 15 turns. Record what happens.

Interpret Data: *Write sentences explaining the data you collected. What does the amount of turns tell you about the strength of the tornado?*

5 turns:

---

10 turns:

---

15 turns:

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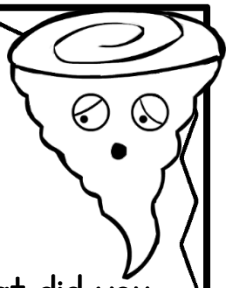

Drawing Conclusions:

My hypothesis was _____ (correct/ incorrect). I discovered… (what did you learn about tornados?)

Reflections: *What questions do you have? What do you wonder? Would you do this experiment in a different way?*

Draw a picture of your experiment:

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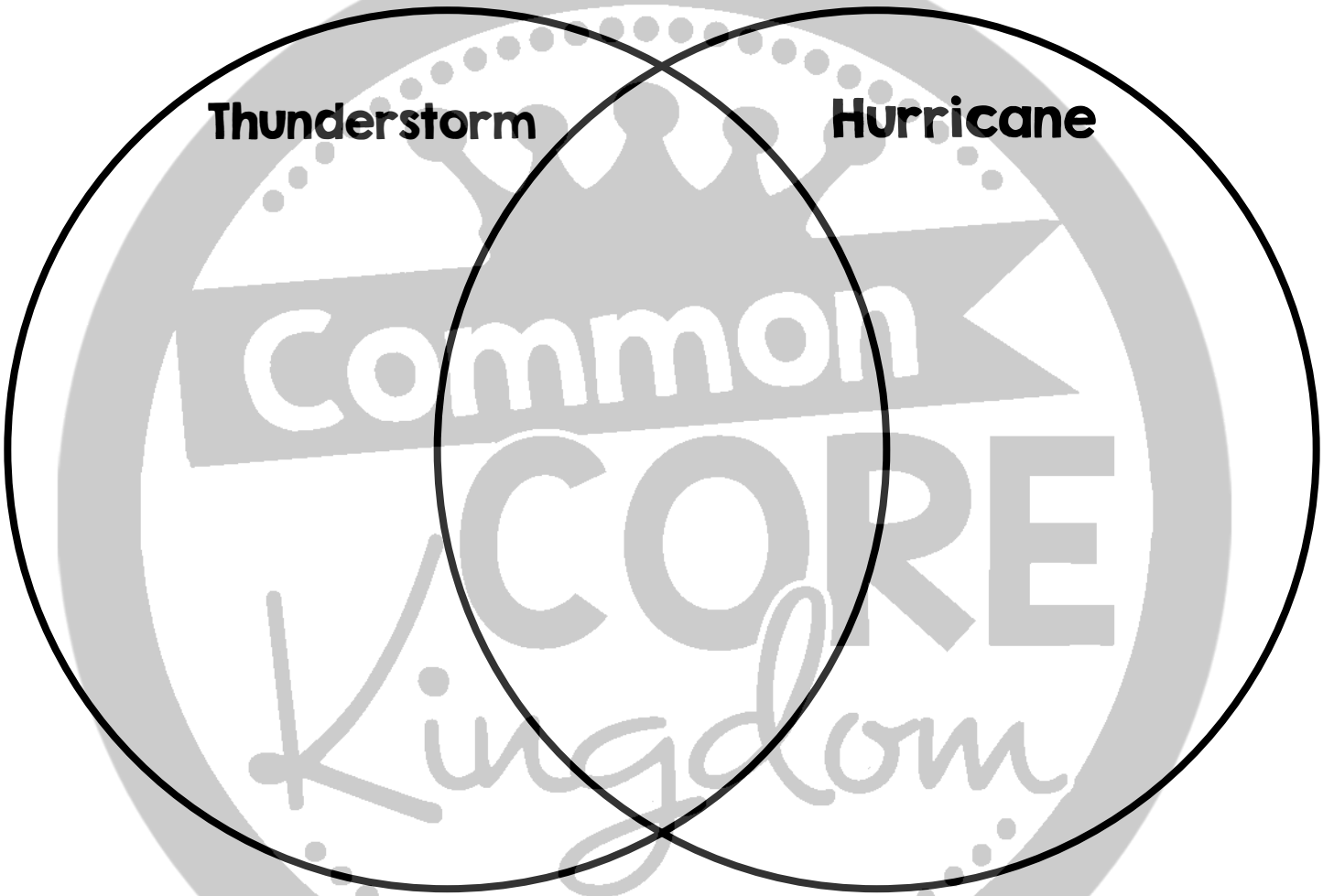
Name: _____ Date: _____

Compare & Contrast

Directions: Use the Venn Diagram below to compare the features of two types of severe weather.



Strong Winds
Thunder
Hail
Forms over Ocean
Lightning
Flooding
Heavy Rain
Knocks Down Trees and Buildings

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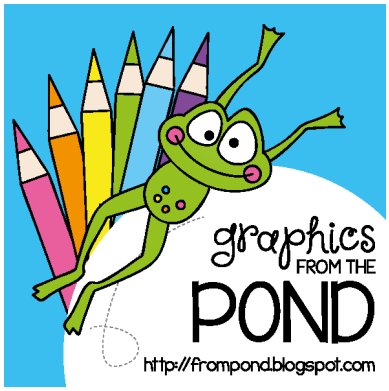
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