

Wicked Weather

1. Question & Research Task

Every morning and evening, people check the news to see what the weather will be like so that they can dress for the weather. What do people do when they live in an area that is known to have severe weather conditions?

Watch the video from *NBC News* to see an example of what happens when severe weather hits.

If you live in an area or are visiting a place known for severe weather, how will you know when this severe weather will occur? How will you and your family stay safe when severe weather happens?



Click the image to view a video from NBC News about [How Meteorologists Use Data to Predict Severe Weather](#)

Image Source: NBC News

In this Slam Dunk, you will conduct brief, focused research to respond to the inquiry question:

How can I be prepared for severe weather in different parts of the world?

2. Information Sources

SLIDE NAVIGATION

1

2

3

4

5

6

Next

Choose several of the sources linked here to complete the Student Activity on Slide 3.

Blizzard	Derecho	Hail	Hurricane
World Book Kids: Blizzard	World Book Kids: Derecho	World Book Kids: Hail	TumbleBook Library: Hurricanes 101
GALE InContext Elementary: Blizzard may drop 2 feet of snow	Discovery Education: Wind Storms	GALE InContext Elementary: Hail	World Book Kids: Hurricane
Discovery Education: Staying Safe In Cold Weather	GALE InContext Elementary: Five Lessons Learned from the Derecho	Discovery Education: Hail	PebbleGO: Hurricanes
Ice Storm	Typhoon	Monsoon	Tornado
World Book Kids: Ice Storm	GALE InContext Elementary: Typhoons	World Book Kids: Monsoon	World Book Kids: Tornado
GALE InContext Elementary: Winter Storm Brings Snow and Ice	Discovery Education: Typhoon	SIRS: Monsoon in June	TumbleBook Cloud, Jr.: Tornadoes 101
GALE InContext Elementary: Ice Storm	GALE InContext Elementary: After the Storm: Deadly Typhoon	GALE InContext Elementary: Monsoons	Pebble GO: Tornadoes

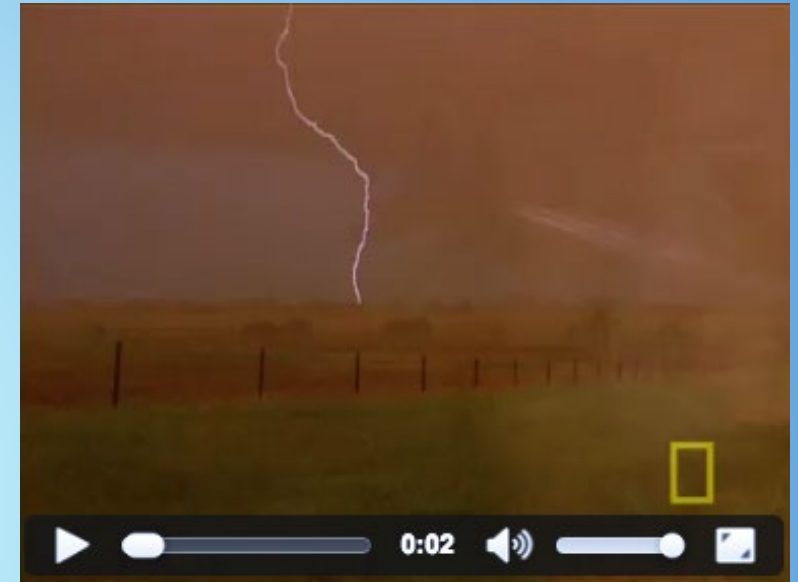


Image Source: [TumbleBook Library](#)

Click the video above to find out more about Climate and Weather.

Click on Tim and Moby to find more weather-related information.



****You may need to login to databases by clicking BCPS Digital Content in the [Apps Portal](#).**

3. Student Activity

Choose one type of severe weather you would like to know more about. Use the sources on Slide 2 to research this type of severe weather. Your librarian will give you a paper copy of the [Emergency Plan Organizer](#) to record your notes.

Use the following questions to guide your research:

- What **areas** are affected by this severe weather?
- How does this type of severe weather **happen**?
- What can a person do to **stay safe** during this severe weather?

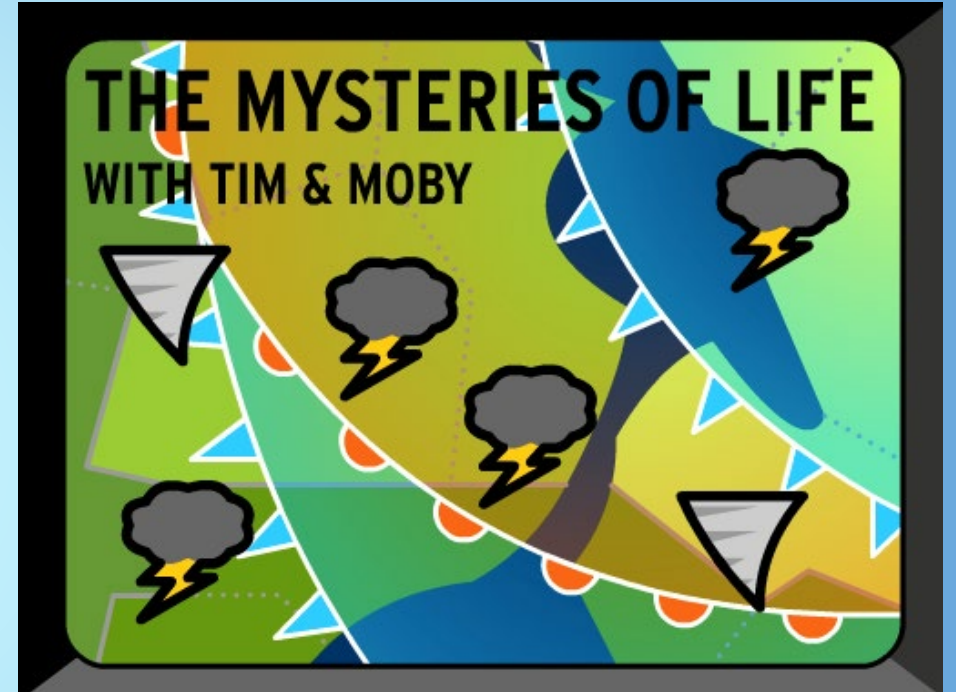


Image Source: BrainPOP

Click on the image to view the BrainPop video, “**Natural Disasters**”.

*You may need to login to databases by clicking **BCPS Digital Content** in the [Apps Portal](#).

4. Assessment Activity

How can I be prepared for severe weather in different parts of the world?

Safety Plan

Using the information from your note taking sheet, develop a plan for staying safe during a severe weather event. The emergency plan should include clothing, materials, equipment and safety tips that will help you and your family remain safe throughout the weather event.

Use the [Wicked Weather Emergency Plan Success Criteria](#) to guide you as you develop your plan, and the [Emergency Plan Organizer](#) to refine your notes from your research.

The US Department of Homeland Security Federal Emergency Management Agency (FEMA) Disaster Fact Sheets for Kids to assist you in developing your emergency plan.



Image Source: commons.Wikimedia.org

Makerspace

You may design and create a prototype of a tool, space, or structure to keep you and your family safe. Use the severe weather that you chose for your research.

Use the [Engineering Design Process and Planner](#) to design. Then create the structure, space, or tool using available makerspace or found materials. You will share your chosen severe weather and the products or innovations you created to keep people safe.



Image Source: pixabay.com

5. Enrichment Activities

Find more information about severe weather with the following links:

- [Come a Tide](#) – Hear a story about a family’s adventure during the spring floods as well as other severe weather types.
- [What’s Up With the Weather?](#) - Find out more information about Global Warming and how it impacts our weather
- [Wild Weather Adventure](#)

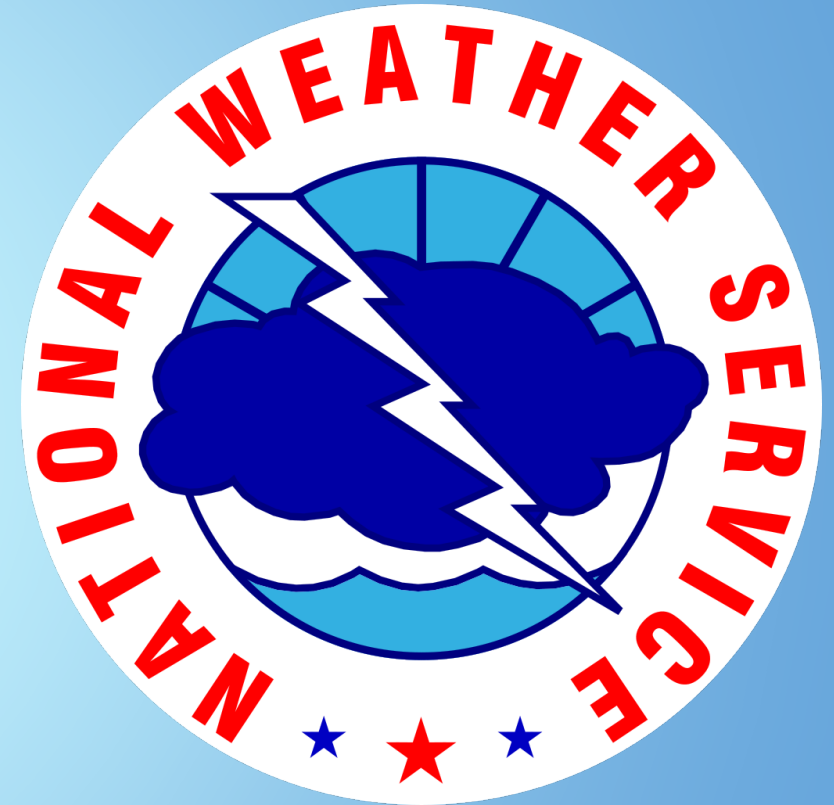


Image Source: Wikimedia.com

****You may need to login to databases by clicking [BCPS Digital Content in the Apps Portal](#).**

6. Teacher Resources

<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
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Grade 3 Library Media

Objective: Students will be conduct brief, focused research in order to develop an emergency plan for a selected type of severe weather.

Time Frame: Two to three 50-minute periods

Differentiation strategies for this lesson:

- Have students use learning supports provided in any BCPS Digital Content in the [Apps Portal](#) included in this lesson.
- Refer to [Digital Content Snapshot/Support pages](#) as needed.
- Consider printing all graphic organizers on Slides 3 and 4 prior to instruction.

Notes to the teacher:

- The [Wicked Weather Teacher Resource](#) can be used to complete the Safety Plan and Makerspace. This resource is not WCAG compliant.
- The students will use the Makerspace tools from their school.
- The [Emergency Plan Organizer](#) is not WCAG compliant and should be printed out for students.
- Direct links to PebbleGO, BrainPOP, and BrainPOP Jr. will not work in the PowerPoint version of this Slam Dunk; however, they will work in the PDF version. If you wish to personalize this Slam Dunk, make your modifications in PowerPoint and then save your changes as a PDF. Students should view this Slam Dunk as a PDF.
- Discovery Education and Safari Montage videos will require students to log in.
- YouTube Videos must be displayed to the whole class using the teacher's account.
- Learn more about concept mapping in [Make a Map: Natural Disasters](#) by using the [BrainPOP Educator's Lesson Ideas page on concept mapping](#).
- Alternatively, students may use a printed copy of the [ReadWriteThink Concept Map](#).
- Consider [using the Schoology Assignment Apps feature](#) to assign Microsoft or Google documents and files for students to access, edit, and submit through Schoology.

Last updated: July 2022 Report broken links to BCPS Library Media Programs by using the [Library Media Broken Links Form](#).

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Learning Standards Alignment

Next Generation Science Standards

3-ESS2-2 Obtain and combine information to describe climates in different regions of the world.

3-ESS3-1 Make a claim about the merit of a design solution that reduces the impacts of a weather-related hazard.

Common Core State Standards for English Language Arts & Literacy

Reading: 1. Read closely to determine what the text says explicitly and to make logical inferences from it; cite specific textual evidence when writing or speaking to support conclusions drawn from the text.

Writing: 7. Conduct short as well as more sustained research projects based on focused questions, demonstrating understanding of the subject under investigation.

AASL Standards Framework for Learners

Inquire: Build new knowledge by inquiring, thinking critically, identifying problems, and developing strategies for solving problems.

Think: Learners display curiosity and initiative by:

I.A.2 Recalling prior and background knowledge as context for new meaning.

Create: Learners engage with new knowledge by following a process that includes:

I.B.1 Using evidence to investigate questions. I.B.3 Generating products that illustrate learning.

Share: Learners adapt, communicate, and exchange learning products with others in a cycle that includes:

I.C.1 Interacting with content presented by others.

Grow: Learners participate in an ongoing inquiry-based process by:

I.D.2 Engaging in sustained inquiry.