

# 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 appropriately for the day and plan for the week ahead. What do people do when they live in a region that is known to have severe weather conditions?

Watch the video to the left from NBC Learn to find out more about what happens when severe weather hits.

If you live in an area or are visiting a country known for severe weather, how will you know when this severe weather will occur? How will you and your family remain safe in the midst of a violent weather outbreak?

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

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

1

2

3

4

5

6

Next



Image Source: NBC Learn

## 2. Information Sources

You will use the information sources linked here to complete your Information Web. Choose one to investigate and take short careful notes.

<a href="#">Derecho</a>	<a href="#">Tsunami</a>	<a href="#">Blizzard</a>	<a href="#">Ice Storm</a>
<a href="#">Scholastic Go: Derecho</a> ★	<a href="#">Weather Wiz Kids: Tsunami</a>	<a href="#">Winter Storms</a>	<a href="#">Crystal Chaos: The Ice Storm of '98</a>
<a href="#">National Oceanic and Atmospheric Administration: About Derechos</a> ★	<a href="#">Savage Earth Animations: Tsunami Attack</a> (select <i>Tsunami Attack</i> in menu) ★	<a href="#">SAFARI Montage: Blizzards</a> ★	<a href="#">What Ices Storm Accumulations Mean and How to Stay Safe</a>
<a href="#">SciJinks: What is a Derecho?</a>	<a href="#">Tsunami</a> ★	<a href="#">World Book Kids: Blizzard</a>	<a href="#">11 Facts About Ice Storms</a>
<a href="#">Hurricane</a>	<a href="#">Typhoon</a>	<a href="#">Monsoon</a>	<a href="#">Tornado</a>
<a href="#">TumbleBook Library: Hurricanes 101</a>	<a href="#">Typhoon and Hurricane</a>	<a href="#">World Book Kids: Monsoon</a>	<a href="#">Tornado Facts for Kids</a>
<a href="#">Storms: Hurricane-Here Comes a Hurricane!</a> ★	<a href="#">Devastating Typhoon</a> ★	<a href="#">Scholastic Go!: Monsoon</a> ★	<a href="#">World Map of Tornadoes</a> ★
<a href="#">Hurricane facts for Kids</a>	<a href="#">Typhoon in the Philippines</a> ★	<a href="#">What is a monsoon?</a> (scroll down to this section)	<a href="#">TumbleBook Cloud: Tornadoes 101</a>



Image Source: TumbleBook Library

Click the video about to find out more about “Climate and Weather”

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



### 3. Student Activity

YOU may use the links on slide 2 or 4 to complete this investigation.

--Research one type of severe weather.

--Describe this type of weather. What is it? What causes it? What part of the world does it usually happen?

--Prepare your emergency plan. Describe how to prepare for this type of weather? What do you need to have ready? Do you need any particular type of clothing? Those are just some of the questions, you may think of more information to add.

--Describe any events where this type of weather took place.

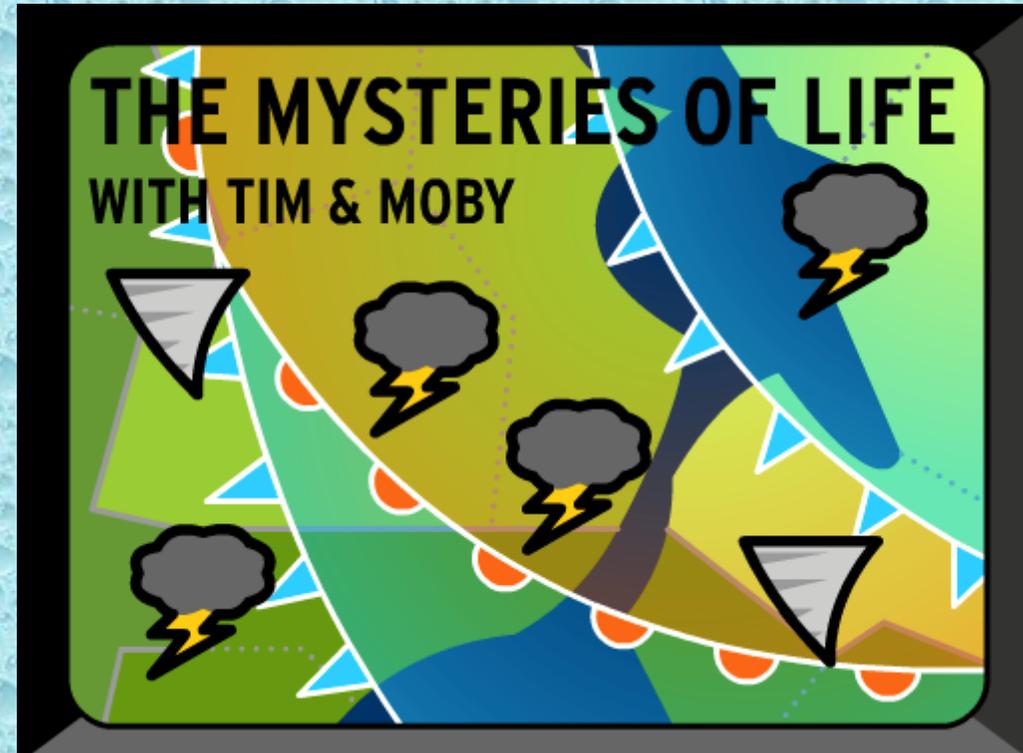


Image Source: BrainPOP

## 4. Assessment Activity



Use these fact sheets to help you plan for your wicked weather:

[Derecho](#)

[Tsunami](#)

[Blizzard](#)

[Ice Storm](#)

[Hurricane](#)

[Typhoon](#)

[Monsoon](#)

[Tornado](#)

Use [CultureGrams Kids Edition](#) to find out more information about your severe weather region.

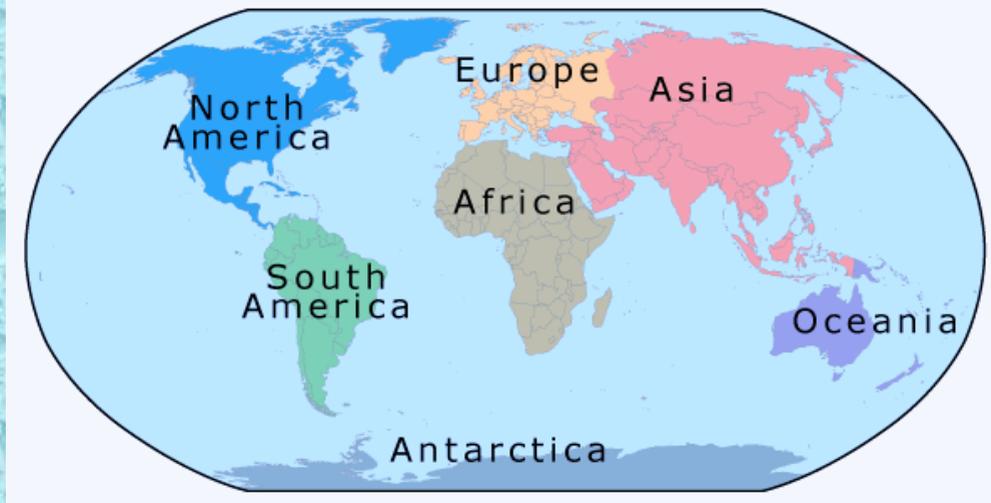


Image Source: CultureGrams Kids Edition

# 5. Enrichment Activities

## Science of Everyday Life Interactive

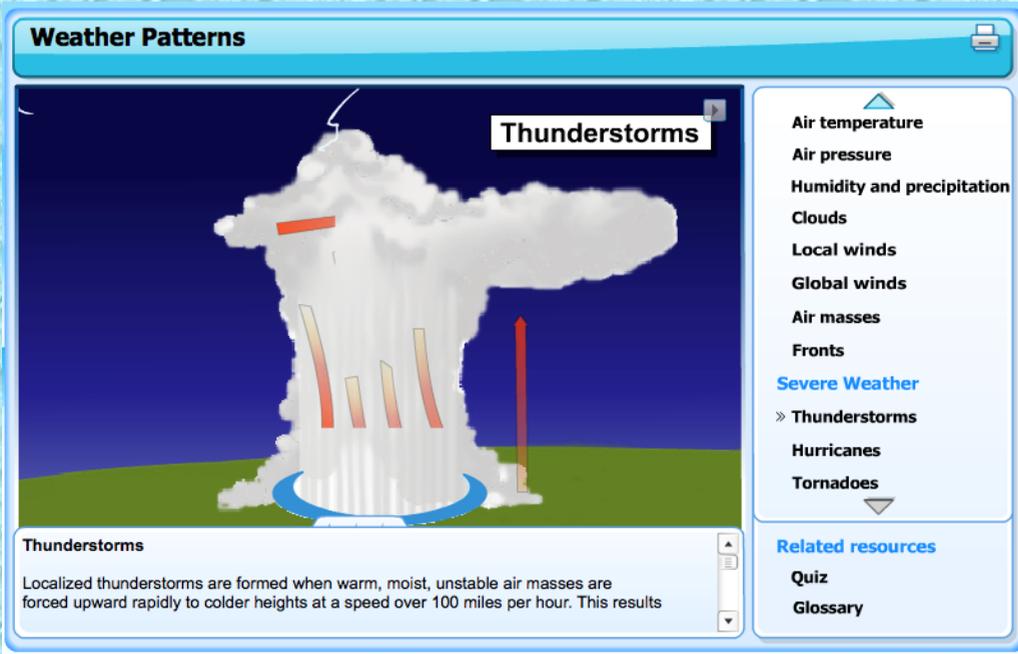


Image Source: [Discovery Education](#)

Find out more information about severe weather with the following links:

- [The Young Meteorologist Program: Severe Weather Preparedness Adventure](#) (game)
- [Meteorologist](#)- Learn about what meteorologists do and how they help keep us informed about the weather.
- [Weather Fun](#)- Weather related folklore about how animals may help predict the weather.
- [What's Up With the Weather?](#) - Find out more information about Global Warming and how it impacts our weather.

**Universal  
Search**

Use [Universal Search in Destiny](#) to find resources in your school library's collection about weather.

# 6. Teacher Support Materials

<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
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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

**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 for the 21<sup>st</sup> Century Learner

**1.1.6** Read, view, and listen for information presented in any format (e.g. textual, visual, media, digital) in order to make inferences and gather meaning.

**2.1.3** Use strategies to draw conclusions from information and apply knowledge to curricular areas, real-world situations, and further investigations.

### P21 Framework: 21<sup>st</sup> Century Student Outcomes

**3. Information, Media & Technology Skills: Information Literacy:** Access information efficiently (time) and effectively (sources); Use information accurately and creatively for the issue or problem at hand.

**ICT Literacy:** Use technology as a tool to research, organize, evaluate and communicate information.

## Grade 3 Science: Weather and Climate

**Objective:** Students will conduct brief, focused research in order to identify different types of climate and weather that happens around the world in order to develop an emergency plan for survival.

**Time Frame:** Two to three class periods.

### Differentiation strategies for this lesson:

- Encourage students to use learning supports provided in any **BCPS-licensed Digital Content** included in this lesson, such as audio read-aloud and labeled Reading Levels/Lexiles.
- Reading Levels labeled in this Slam Dunk:  
 = Challenging/ above grade level
- Use **Digital Content Snapshots & Support resources** as needed to customize or personalize student learning.
- Refer to **K-12 Research Guides** for 21<sup>st</sup> century skill builders & tools as needed to customize or personalize learning.

### Notes to the teacher:

- Collaborate with your school library media specialist to plan and implement this lesson.
- 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](#).