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?
# 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.

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

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
Use the information sources on Slide 2 to …

- Research one type of severe weather.
- Determine what geographical regions are affected by this type of severe weather.
- Identify and discuss:
  - how this type of severe weather develops in the region
  - how it affects the people of the area
If you live in or travel to different parts of the world, you need to be prepared for the various types of weather that could affect you while you are there. Choose a region of the world where you would like to visit for a month using CultureGrams (click the world map to the right).

After researching one type of severe weather, develop a plan for staying safe in the event of a severe weather event in the region using Wixie, or Prezi.

Your emergency plan should include clothing, materials, equipment and safety tips that will help you and your family remain safe in the even of a weather event.

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

Please use the Severe Weather Emergency Plan success criteria to guide you as you develop your plan. Use the Emergency Plan Organizer to help you refine your notes from your Information Web.

Emergency Plan Rubric
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.
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 21st 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: 21st 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 21st 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.

Last updated: July 2016   Created by: Chimère Neal, Resource Teacher - Library Media   Report broken links or issues to: Office of Digital learning, 444-809-4035
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