

2nd Grade Student Guide - Nor'easters and Tropical Cyclones - A

Pre-Assessment/Pre-Discussion Questions:

- 1) What is a hurricane?
- 2) What is a Nor'easter?
- 3) What is the circle in the middle of a hurricane called?
- 4) Describe your own personal experiences with a hurricane or Nor'easter. What kind of damage did you see?
- 5) Describe when flooding occurs where you live.

Viewing Guide Questions:

- 1) What are the 2 types of storms that cause flooding that they talk about in the video?
- 2) Why are Nor'easters called a Nor'Easter?
- 3) When are Nor'easters most common?
- 4) What do hurricanes form over?
- 5) Why can major damage occur during Category 1 Hurricane?
- 6) How much storm surge did Hurricane Florence cause Down East?
- 7) What is storm surge?
- 8) What are some dangers of storm surge?

Answer Key:

- 1) Nor'easters and hurricanes
- 2) They are named after the direction that the strongest winds typically blow over.
- 3) They are most common between September and April.
- 4) Hurricanes form over warm ocean waters near the equator.
- 5) Because the rating scale for hurricanes does not include rainfall, storm surge or tornadoes.
- 6) 5 to 8 feet.
- 7) Storm surge is an unusual rise in water level above the predicted level.
- 8) Extreme flooding, damage to buildings, beaches and coastal highways.

After Viewing Questions:

- 1) What's the difference between a nor'easter and a hurricane?
- 2) What is the scale that measures hurricanes? What does it not measure?
- 3) What types of weather events should you expect when a hurricane comes to this area?
- 4) Explain what a storm surge is.
- 5) What locations are more prone to storm surges? Why?

Answer Key:

- 1) Nor'easters need colder climates, and hurricanes need warmer climates.
- 2) The Saffir-Simpson scale. This scale doesn't measure rainfall, storm surge, or tornadoes.
- 3) I should be prepared for high wind speeds and a little bit of flooding.
- 4) A storm surge is an unusual rise in water level above the predicted level.
- 5) The east and gulf coast because of winds due to hurricanes.

Vocabulary Activity:

2nd Grade Vocab Hurricanes

https://docs.google.com/document/d/1PH_JI2KOHgDxl3zatPZZul9_92InOcID/edit?usp=sharing&ouid=116203035430898202295&rtpof=true&sd=true

Hands-on Activity:

Nor'easter and Tropical Cyclone Hands-on Activity - Cut and paste vocabulary words into their correct area, matching their topic.

<https://docs.google.com/document/d/1fMWh6SABXdk5AVSYqXliLm3fRqTHU-uPg3iKbcfLaNk/edit?usp=sharing>

Final Assessment Questions/Online Videos:

Hurricane | The Dr. Binocs Show | Educational Videos For Kids

https://www.youtube.com/watch?v=J2_Bk4dVS0

- 1) How did Dr. Bionics describe a hurricane?
- 2) Does the warm air above the ocean rise or sink? What does it create?
- 3) What can hurricanes also be called?
- 4) What do hurricanes use as fuel?
- 5) What is the calmest part of the hurricanes?

Answer Key:

- 1) A huge storm that usually forms over warm ocean waters near the equator.
- 2) It rises and creates a low-pressure system.
- 3) Giant engines.
- 4) They use warm and moist air.
- 5) The eye.

Going Further Questions:

- 1) How can you prepare for hurricanes in your area?
- 2) What is the best way to withstand a Nor'easter?
- 3) How should you react if there is a large storm surge? Why?
- 4) How do you think these storms would impact you?

Answer Key:

- 1) You want to have an emergency kit, an evacuation plan, secure your home, and stay informed.
- 2) To prepare in advance, stay informed, and stay inside.
- 3) Evacuate immediately if told to do so, move to higher ground, or have a designated area because a large storm surge could leave you stranded.
- 4) It will vary depending on where they live, but mainly it would cause flooding damage to houses and a large amount of storm surge

Other Resources:

- 1) Nor'Easter Nick Reads to Kids About Weather
<https://www.youtube.com/watch?v=DM7R-KQdpA4>
- 2) Hurricanes - Learning about Hurricanes for kids and children
<https://www.youtube.com/watch?v=uw-ts4TvcsY>
- 3) Why Do Floods Happen? | Weather Science | SciShow Kids
https://www.youtube.com/watch?v=Qe350nm_odA

Other Ideas:

Color

<https://www.google.com/url?sa=i&url=https%3A%2F%2Feasydrawingguides.com%2Fcoloring-pages%2Fhurricane%2F&psig=AOvVaw09akMh5JMV4HbXonjR2MW5&ust=1764172670622000&source=images&cd=vfe&opi=89978449&ved=0CBYQjRxqFwoTCLCB9MLVjZEDFQAAAAdAAAAABAL>

OTHER IDEAS

- Write a story about
- Draw a picture of
- Find the difference between- pictures/paragraphs
- Which words match/not match the topics

- Poster explaining the topic
- Pamphlet to explain the topic