



## Article Guide

### Article Guide: Climate change didn't cause Hurricane Florence, but it probably made it worse

<http://scienceovereverything.com/2018/09/20/hurricane-florence/>

#### Part 1

Directions:

- Read the entire article
  - Box vocabulary words or words that you have not seen before
  - Underline in the text where the focus questions are addressed
- Answer each focus question

#### Focus Question

1. What made Hurricane Florence so destructive? What kind of damage did the storm cause?

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2. How does warmer air affect hurricanes?

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3. How much more rainfall did Hurricane Florence have due to climate change?

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#### **Part 2:**

Directions:

- Read each understanding question
  - Think about what you would need to know to answer that question
- Read the article a second time with a partner.
  - Answer each understanding question

1. Explain in your own words how hurricanes form. What factors contribute to their strength?

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2. How will climate change and an increase in temperatures around the world affect hurricanes?

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**Part 3:**

Directions:

- Read the article a final time as a class.
- Discuss as a large group how you would address the extension question
  - Write a response to the extension question

Extension question

While Hurricane Florence was only a category 1 hurricane, it still caused extensive damage due to flooding. If you were a meteorologist, how could a storm classification system include both potential damage from wind speeds and flooding? In the space below, create your own hurricane classification system that could more accurately describe potential damages from both factors. Then write 2-3 sentences giving your opinion on what would cause more damage, a storm with strong winds or a storm that causes massive flooding. Explain your reasoning.

Saffir-Simpson Scale	
Scale	Wind Speeds
Tropical depression	Less than 38 mph
Tropical storm	33-73 mph
Category 1	74-95 mph
Category 2	96-100 mph
Category 3	111-129
Category 4	130-156 mph
Category 5	Greater than 157 mph

Name of your scale:		
Scale	Projected precipitation	Wind Speeds
Tropical depression		
Tropical storm		

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