

## HURRICANES

Present using a picture book, a project board, a poster board, a publisher website template, a Prezi, a PPT, an essay, a video documentary, or any other approved method. YOU MAY WORK WITH A PARTNER!!

### Formation

1. Where do hurricanes get their start?
2. What conditions are necessary for a hurricane to form?
3. Where does the word hurricane come from?
4. Which way does a hurricane rotate?
5. On average, how many hurricanes form each year?
6. Who assigns the names to Hurricanes?
7. What will be the name of the first hurricane in the year 2018?
8. Why would a hurricane name be retired and never used again?
9. When are the dates of hurricane season?
10. What factor determines whether a storm is considered a tropical depression, a tropical storm, or a hurricane?

### Tracking and Predictions

11. What is the name of the scale used to measure hurricane strength?
12. How many categories of hurricanes are there? Describe each category (wind speed, the type of destruction, etc...)
13. Which category hurricane produces a storm surge of 9-12 feet?
14. Which category hurricane is considered catastrophic?
15. What is the maximum sustained wind speed of a category two hurricane?
16. What types of data do Hurricane Planes capture, and how are they able to fly in and out of these massive storms safely?
17. Does hurricane strength always determine how much damage is caused? Explain.
18. Name three category five hurricanes that have made landfall.

### Landfall and the Aftermath

19. What five aspects of a hurricane can potentially cause damage?
20. Where are the calmest winds in a hurricane located?
21. Where are the strongest winds in a hurricane located?
22. What is storm surge? What type of damage can it cause?
23. What aspect of a hurricane determines how much rain will fall?
24. Between storm surge, high wind and heavy rains which one is the most dangerous? Explain.
25. What was the deadliest hurricane?
26. What was the most expensive hurricane?

### Analysis

27. Draw the anatomy of a hurricane (illustration of how the wind rotates up and around-warm and cold, convection, cloud formation, etc...)
28. Research three hurricanes that have made landfall in the U.S. Complete the following graph:

| Hurricane Name | Maximum Sustained Winds | Category of the Storm | Date of Landfall | Location of Landfall | Number of Deaths | Estimated Damage Amount |
|----------------|-------------------------|-----------------------|------------------|----------------------|------------------|-------------------------|
|                |                         |                       |                  |                      |                  |                         |
|                |                         |                       |                  |                      |                  |                         |
|                |                         |                       |                  |                      |                  |                         |

29. Choose any hurricane of your choice...find three articles that discusses its potential threat/preparations, the landfall/damage seen, and the aftermath/cleanup. Write a summary of the information learned, including; its wind speed, its name, where it made landfall, the other places it made landfall (Jamaica, St. Thomas, etc...), the type of preparations that took place, the type of damage that was caused, its storm surge amount, the time of day the landfall took place, and the cleanup efforts. **BE SURE TO INCLUDE A BIBLIOGRAPHY**...title of article, the web address, the date of retrieval, the author's name if available.
30. Hurricane Opal hit Georgia in the 1990s. Describe this storm (the speed, the date, the path it took, where it made landfall, the damage caused, what had it hit before us, etc...).