

Name _____ Period _____ DUE DATE: February 21st

SCIENCE THIRD QUARTER HOMEWORK – NATURAL DISASTERS

Nature sometimes presents humans with some extreme weather conditions that can be challenging or even dangerous to live through! In this project, you will:

- Choose ONE natural disaster from the following list:
sandstorm, hurricane, tornado, wildfires, drought, flooding, and avalanche.
- Do some research to address the topics and questions outlined below in Parts A to E.
- Make a presentation about your disaster to teach others about it from the list of options that follows later.



Natural disaster to research: _____

Part A – Define the Disaster (5 points)

1. What is the definition of this disaster?
2. Explain how this disaster occurs, outlining the causes, weather conditions, and any other reasons that lead to this kind of disaster.
3. Where does this disaster typically occur within the United States? Where does it occur within the world?

Part B – Be Prepared! (5 points)

4. What steps (if any) can a family follow to be prepared for the disaster you are researching? Explain the supplies they should keep ready, changes to be made in their homes, or any other information that would teach someone to prepare for this disaster.

Part C – Prediction – Is It Possible? (5 points)

5. Explain any monitoring techniques scientists and engineers have found that could help predict when this disaster could occur.
6. Give examples of equipment and/or technology being used to predict, prevent or help out after this kind of natural disaster.

Part D – How Bad Can It Be? (5 points)

7. Research a destructive example of this natural disaster. Be sure to include:
 - a) The date it occurred, and where it occurred in the world.
 - b) Examples of the destruction it caused (including information like the number of people affected by it, amount of property damage, how long it took to recover or rebuild, etc.).
 - c) What was learned from it. (Were any changes made in how people interacted with their environment, how prepared they were, how their buildings are constructed, etc.?)

Part E – If You Think That One Was Bad... (5 points)

8. Choose one other example of this natural disaster. Write a paragraph to compare and contrast the two examples (this example and the one you used for part D) of this natural disaster, giving at least TWO similarities and THREE differences.

Part F – References (5 points)

Make a list of websites and/or books used for research. Remember, "Google" is not a website. Your list should have the URL listed (for example: www.yayscience.net and not just yayscience).

PRESENTATION FORMATS

After you have done your research, choose **ONE format** from the choices below, and prepare **ONE presentation** to share with the class, to teach about your natural disaster.

In your presentation, **INCLUDE THE HEADINGS FOR EACH PART FROM ABOVE**. You do not have to include the question numbers, but make sure all the information for each question has been included.

Format #1 – Poster

On a piece of poster board or construction paper, create a poster that includes Parts A to Part F, with pictures and diagrams that help explain your information. Use colorful headings, graphics, border designs, etc. to catch the viewer's attention and interest. Include your NAME AND PERIOD in the BOTTOM RIGHT CORNER of your poster.

Format #2 – Pamphlet

Prepare a pamphlet by folding a sheet of paper into thirds (creating six "pages"). Make the first page a cover page that states the kind of natural disaster and your NAME AND PERIOD. Use the remaining five pages to include Parts A to Part F, with pictures and diagrams that help explain your information. Make your pamphlet colorful and interesting to read!

Format #3 – Slide show on the computer

Using PowerPoint, Google Slides, or any other media format, create a presentation that includes Parts A to Part F, with pictures and diagrams that help explain your information. The first slide will be the TITLE SLIDE and should include the kind of natural disaster and your NAME AND PERIOD. Fancy up your presentation by using designs, clipart, transitions and animations. BRING YOUR PRESENTATION TO SCHOOL ON A FLASH DRIVE OR CD that can be left with your teacher until it is graded and returned.

Format #4 – Video of a TV newscast (Also includes a written summary of your research)

Make a video of a newscast or TV announcement about the natural disaster. At the opening of the video, include the kind of natural disaster and YOUR NAME. Explain the information for parts A to Part E in your video. You must also submit a written summary of the information for parts A to Part F, with your NAME AND PERIOD at the top. BRING YOUR VIDEO TO SCHOOL ON A FLASH DRIVE OR CD that can be left with your teacher until it is graded and returned.

Format #5 – Student Choice

If you have an idea for a different kind of presentation (3-D model, poem, story, song, etc.), discuss it with your teacher and obtain permission to do it. Get clear guidelines for what must be included and submitted.

This project is out of 30 points and will be an assessment grade, so complete it to the best of your ability. Your project should be complete, neat and well done if you want all 30 points.

If you have any questions or need assistance, please come see me or email me.