

Name: _____ Period: _____ Due Date: February 21st

SCIENCE ADVANCED 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.



Part A – Define the Disaster (5 points)

1. Describe the disaster. What does it do?
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. Create a public service announcement which informs people about how to prepare for this disaster. What does the public need to have in their house, changes to be made in their homes, or other information that would help the public be prepared for this disaster.

Part C – Prediction (5 points)

5. Describe the type of scientist who researches this disaster.
6. What tools do they use in their job to predict, prevent or help out after this kind of disaster?
7. Explain any monitoring techniques scientists and engineers have found that could help predict when this disaster could occur.

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

8. Research an 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 – Possibly a Good Thing? (5 points)

9. Consider the natural disaster and its effects on the area it affected. How could this natural disaster actually be a good thing to nature or the environment? Write a paragraph discussing the result of the natural disaster and how it could be a good thing in some ways.

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 – Essay

Type out the information required in paragraph form. Place your name, date, and period on the top right corner. Be sure to include Parts A to Part F. Email Miss Johnson your essay when done.

Format #2 – Pamphlet

Prepare a pamphlet by folding a blank 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, date, 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, date, 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 Miss Johnson until it is graded and returned. Or, email your slide show to Miss Johnson so she can grade it.

Format #4 – Video of a TV newscast (Also includes a written script)

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, date, and period at the top. Bring your video to school on a flash drive or cd that can be left with Miss Johnson until it is graded and returned. Emailing the video won't work (the file is always too large) so you will HAVE to have it on a flash drive that can be left.

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 Miss Johnson and obtain permission to do it. Get clear guidelines for what must be included and submitted. Either come talk with me or email me your idea so we can discuss it.

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.