

Natural Hazards Research Notebook for _____ (name)

Hazards that you will be researching:

STEP 1 - Causes of Natural Hazards

Compare the hazard maps provided by your teacher with each other and with the physical map of the United States. Discuss what you are seeing with your city. Are there any patterns in the ways these hazards occur?

Record your observations here:

Research why your hazard occurs more often in some areas than others.

Name of your hazard	What factors must be present for your hazard to occur?
	1. 2. 3.
	1. 2. 3.

After completing the above research, do you believe the hazard(s) is really a threat to your city? Why or why not?

Meet together as a city and share what you have learned about the causes of your natural hazards. Record the findings of the other city planners here.

Name of hazard	Summarize the factors that must be present for this hazard to occur.	Is this hazard a threat to your city?

Complete the following question after the class discussion on the causes of natural hazards.

Are there any natural hazards that your city did not choose to research but you now believe are a threat to your city? List them here.

What natural hazards are a risk in the (real life) community in which you live?

STEP 2 - Predicting Natural Hazard Events

Natural Hazard	How often does this hazard occur?	Are we able to predict when this event might occur?	What are the signs that show this event is about to happen?

Meet together as a city and share what you have learned about predicting your natural hazard events. Summarize the findings of the other city planners here.

Natural Hazard	How often does this hazard occur?	Are we able to predict when this event might occur?	What are the signs that show this event is about to happen?

STEP 3 - What can we do?

There are things that communities can do to warn their citizens that a disaster is about to happen. There are also ways that they can use technology to reduce the loss of life and property.

Research some of the technologies that exist to help protect communities from the hazard you have been researching.

Hazard	What technologies exist that have been helpful in protecting people from this hazard?	Pros of this technology	Cons of this technology

Design a solution to the risk your city faces because of this hazard. What technologies will be most effective at protecting the citizens?

Meet together as a city and share what you have learned about technologies used to protect people and their property from natural hazards. Summarize the findings of the other city planners here.

Hazard	What technologies exist that have been helpful in protecting people from this hazard?

PRIORITIES

Rank all the technological solutions your city came up with to protect its citizens. What technology do you think will do the most to protect your city from all the different hazards it faces?

Most important

Least important

FINAL PROPOSAL

As a city, you will need to create a proposal that you will present to the ruler of your country. In your proposal you will recommend technology to purchase to protect your city. The strength of your arguments will determine whether or not the ruler of your country will provide you with the funds to invest in technology.

Things you will need to include in your proposal:

- Introduce your city. Where is it located?
- Why is your city important? Why is it worth protecting? What does it contribute to the rest of the country?
- What are the most serious hazards that your community faces? What are the causes of these hazards?
- What has been done in other cities to protect people from these hazards?
- What technology do you recommend investing in to protect this city?

Your presentation will be given in the presence of the entire country (class). You will have up to five minutes to make your case to the ruler of the country and convince him or her to provide you with the money to purchase the technology you recommend. Your proposal will be an infographic using graphs, images and examples of ways these technologies have been used to protect other cities. The more convincing you make it, the more likely the ruler will be to award you with funds.