

What Would You Do?

INTRODUCTION

Congratulations! You have each just been elected as a City Planner. Yet already, you have a problem. Your city is located at the heart of natural disasters. Each year, avalanches, floods, and mudslides plague your city. You know very little about these three natural disasters. It is your duty and task as a city planner to understand the causes of your chosen disaster, the damages it produces, and safety precautions to combat it. At the end of your investigations, your group of six will put your creative heads together to answer this question:

What will we do in our city to minimize the damages of this natural disaster?

You will present this plan to your fellow groups of City Planners in the City Council. As a City Council, you will vote on the best solution. Good luck!

THE TASK

At the end of this WebQuest, your group will create a PowerPoint Presentation. In the PowerPoint Presentation, you will be addressing the following questions:

- 1. What is and what causes your natural disaster?**
- 2. What are the damages produced by your natural disaster?**
- 3. How can you protect yourselves when faced with your natural disaster?**

With the information gathered from these questions, you will present to the city council your understanding of the problem and will provide solutions to this question: **What will we do in our city to minimize the damages of this natural disaster?**

THE PROCESS

1. First, you'll be divided into groups of six students.
2. As a group break into 3 smaller groups, and decide what kind of natural disaster you will be focusing on. The choices are: avalanche, flood, and mudslide.
 - a. The WHOLE group will research all 3 types of disasters, but each pair will only research one disaster.
 - b. Once the research is done, come up with a way to protect your city from these disasters.
3. Within your groups, research the questions of your natural disaster you will investigate. These are as follows: **a. What is and what causes your natural disaster? b. What are the damages produced by your natural disaster? c. How can you protect yourselves when faced with your natural disaster?**
4. Using the appropriate links for your disaster and area, find information on your topic that will help to answer the final question. Make sure you take notes.
5. Create a speech or Google Presentation to share the questions you answered. Also answer the question: **What will we do in our city to minimize the damages of this natural disaster?**
6. Present the information to the City Council.
7. Vote as a City Council on the best solution.

*adapted from <http://teacherweb.com/NC/RivermillAcademy/MarkDragon/avalanche.pdf>

Sources to research:

AVALANCHES

What causes the problem?

<http://easyscienceforkids.com/all-about-avalanche/>
<http://www.naturaldisasters.ednet.ns.ca/Projects/Avalanche/bja.htm>
<http://video.nationalgeographic.com/video/101-videos/avalanches> (video)
<http://wonderopolis.org/wonder/what-causes-an-avalanche/>
<http://www.kidzworld.com/article/2017-avalanches-and-snow-slides>

Damages caused

<http://teachingkidsnews.com/2015/04/26/earthquake-in-nepal-triggers-avalanche-on-mt-everest/>
<http://mymassmovementsproject.weebly.com/>

How to stay safe:

<http://www.weatherwizkids.com/weather-safety-avalanche.htm>
<http://www.nps.gov/olym/planyourvisit/avalanche-safety.htm>

FLOODS

What causes the problem?

<http://www.sciencekids.co.nz/sciencefacts/weather/floods.html>
<http://kids.nationalgeographic.com/explore/science/flood/#flood-aerial.jpg>
<http://eschooltoday.com/natural-disasters/floods/what-is-a-flood.html>
<http://eschooltoday.com/natural-disasters/floods/what-causes-floods.html>
<http://eschooltoday.com/natural-disasters/floods/areas-prone-to-flooding.html>
<http://www.ready.gov/kids/know-the-facts/floods>

Damages caused:

<http://eschooltoday.com/natural-disasters/floods/effects-of-flooding.html>
<http://www.scholastic.com/browse/article.jsp?id=3754082>
<http://www.watersafetykids.co.uk/pdfs/flooding.pdf>

How to stay safe:

<http://www.redcross.org/prepare/disaster/flood>
<http://eschooltoday.com/natural-disasters/floods/flood-prevention-methods.html>

BEFORE the flood, what you can do:

<http://eschooltoday.com/natural-disasters/floods/before-during-after-floods.html>
http://www.fema.gov/media-library-data/79a92f5fc479dde04d507673ae7772e1/FEMA_FS_flood_508_8-15-13.pdf

MUDSLIDES

What causes the problem?

http://www.classzone.com/books/earth_science/terc/content/investigations/es1204/es1204page04.cfm
<http://www.redcross.org/prepare/disaster/landslide>
<http://www.ready.gov/kids/know-the-facts/landslides>
https://www.floodsmart.gov/floodsmart/pages/flooding_flood_risks/mud_flows.jsp

Damages caused:

<http://www.bt.cdc.gov/disasters/landslides.asp>
<http://usatoday30.usatoday.com/weather/news/2002/2002-07-24-colo-mudslide.htm>
<http://www.npr.org/sections/thetwo-way/2015/10/17/449463901/mess-left-by-mudslides-in-california-could-take-days-to-clean-up>

How to stay safe:

<http://www.weatherwizkids.com/weather-safety-mudslide.htm>
<http://emergency.cdc.gov/disasters/landslides.asp>
<http://www.ready.gov/landslides-debris-flow>
http://www.procarseatsafety.com/uploads/3/4/1/7/3417234/landslide_mudslide_safety_2pg.pdf