

Natural Disasters Brochure

You will be researching a type of natural disaster and picking a real life event that involved this type of natural disaster.

1. You will choose one type of natural disaster
2. Some helpful guiding questions as you develop your brochure....
 - a. *Explain the scientific causes for this natural disaster (How does this natural disaster occur?).*
 - b. *What are the dangers/hazards associated with this natural disaster? How can these dangers/hazards be avoided? What preventative measures can be taken to prevent the worst?*
 - c. *Choose a specific event and discuss it (ex: Hurricane Katrina). Include dates, location, possible warnings or predictions, hazards, damages, economic impacts, deaths, injuries, etc.*
 - d. *What changes have been made to the area since the specific event? What preventative measures have been or should be implemented to prevent a future disaster?*
 - e. *Apply what you have learned about this event to California. Could this event happen in CA? What would be the impact of such an event in this area? Why do you think so? What could we do to prepare for it?*
3. Create a brochure or pamphlet for the Natural Disaster topic of your choice.
 - a. A minimum of 5 visual representations with captions is required.
 - b. Brochures should be typed. Handwritten brochures must be legible to be graded.

Informational Brochure:

The Brochure/Pamphlet – should...

- Include pictures, diagrams, charts, and/or graphs that will help illustrate the Natural Disaster topic you are discussing.
- Be divided into sections, and each section should cover a separate aspect (sub-topic) of the main topic.

This should address the required content.

- **Front page** = Title Page
- **1st page (inside panel)** = Overview
 - Include Map of where this hazard can occur around the world
- **2nd page (inside middle panel)** = Dangers & Hazards
- **3rd page (inside right panel)** = Preparedness & Mitigation Efforts
 - (ex. What steps are taken before to ensure less risk)
- **4th, 5th page (back 2 panels)** = Specific Event
 - Overview
 - Timeline of events before & after
 - Community Impact
 - Environmental Impact
 - Economic Impact
 - Response (government & non-government)
- **6th page (back right panel)** = California Risk?
 - California Impact? Risk?
- Artwork may be hand drawn or can be graphics from other sources such pictures and images from newspapers, magazines, books, the internet and other sources. All graphics should be supported by captions.
- The brochure will be a minimum of 8.5" x 11" (standard piece of computer paper)
- Be NEAT - Be Colorful - Be Creative - Be Informative

Natural Disaster Sample Topics

Choose one of the following topics to research or find your own natural disaster.

EARTHQUAKES/TSUNAMIS

Haiti (2010)	Charleston, SC (1886)
Mexico City (1985)	Tokyo (1923)
China (1976)	Kamchatka (1952)
Prince William Sound, Alaska (1964)	Andean Islands, Aleutian Islands (1957)
San Francisco (1906)	Hyogo-Ken Nanbu, Honshu Island (1995)
Loma Prieta (1989)	New Madrid, Mississippi (1812)
Northridge (1994)	India Earthquake (1993)
Ka'u District, Hawaii (1868)	Sanriku the island Honshu Tsunami (1896 or 1933)
India and Pakistan (2005)	Southern Chile Tsunami (1960)
Earthquake, Gujarat, India (2001)	Indonesian Earthquake - Indian Ocean Tsunami (2004)
Izmit, Northern Turkey (1999)	Papua, New Guinea Tsunami (1998)
Armenian Quake 1988	Tōhoku Earthquake and Tsunami (2011)
Japan Tsunami 1707	
New Zealand Earthquake (2011)	

FLOODS

Big Thompson Canyon Flood of 1976 (Colorado River)	Vietnam and Cambodia 2001
Rapid City, South Dakota of 1972 (Rapid Creek)	Toccoa, Georgia of 1977
The Shadyside, Ohio Flood of 1990 (Ohio River)	Los Angeles Area 1978
Mississippi/Missouri River Floods 1993	El Nino Floods 1995
Chinese Yellow River 1887	The Great Flood 1995
Mississippi 1927	Mozambique Flood (2000)
The Johnstown Flood of 1889 (Conemaugh, the Little Conemaugh, and the Stony Creek Rivers)	
The Lumberton Flood of 2004 (Medford, Medford Lakes, Vincentown)	

WEATHER RELATED EVENTS

Hurricane Mitch -1998	Blizzard of 1888
Hurricane Floyd -1999	Blizzard of 1996
Hurricane Hugo -1989	Storm of the Century – 1993
Hurricane Andrew -1992	Typhoon – Mozambique 2000
Hurricane Isabel – 2003	Bangladesh Monsoon 1970
Hurricanes Charley, Frances, Ivan and Jeanne-2004	The Great Noreaster 1962
Hurricane Katrina – 2005	Georgia Tornadoes – 2000
Hurricane Rita – 2005	Cyclone Nargis (2008)
Hurricane Sandy 2012	Bangladesh Cyclone 1991
Eastern Seaboard drought of 1999 or 2002	The Dust Bowl – 1930s
Extreme weather across Europe / Heat Waves 2003	Afghanistan Blizzard (2008)
East Africa Drought (2011)	

MASS MOVEMENTS

Frank Slide – Turtle Mountain, Alberta (1903)	Avalanche of Wellington, Wash. (1910)
Aberfan disaster – landslide (1966)	Avalanches of Leukerbad (1518-1758)
Thredbo landslide, Australia (1997)	Turkish tragedy avalanche (1992)
Brazil mudslides (2000)	Palisades, NYC landslide (2004)
Bluebird Canyon area in Laguna Beach, CA (2005)	La Conchita landslide, CA (2005)
Southern Leyte landslide, Philippines (2006)	Sarno, Italy mudflow (1998)

VOLCANIC ERUPTIONS

Mt. Vesuvius, Italy (79)	Awu, Indonesia (1856)
Mt. Kelut, Indonesia (1586)	Soufrière, St. Vincent (1902)
Mt. Vesuvius, Italy (1631)	Mt. Pelee, Martinique (1902)
Pompeii, Italy (1748)	Santa Maria, Guatemala (1902)
Krakatoa, Indonesia (1883)	Taal, Philippines (1911)
Mt. Vesuvius, Italy (1944)	Kelut, Indonesia (1919)
Lakagigar (Laki), Iceland (1783)	Lamington, New Guinea (1951)
Mt. Unzen, Japan (1792)	Mt. St. Helens, USA (1980)
Mt. Mayon, Philippines (1814)	El Chichón, Mexico (1982)
Tambora, Indonesia (1815)	Nevado del Ruiz, Colombia (1985)
Nevado del Ruiz, Colombia (1845)	Lake Nyos, Cameroon (1986)
Katmai, Alaska (1912)	Mount Pinatubo, Philippines (1991-1996)

Grading Rubric for the Natural Disasters Project

Content	2	4	6	8	10
Question 1	Off topic. Little understanding shown.	Does not answer question completely or correctly. Partial understanding shown.	Answers question partially or answer is partially correct. Good understanding shown of parts of the topic	Answers question completely & is partially correct. Good understanding shown	Answers question completely & correctly. Full understanding shown
Question 2	Off topic. Little understanding shown.	Does not answer question completely or correctly. Partial understanding shown.	Answers question partially or answer is partially correct. Good understanding shown of parts of the topic	Answers question completely & is partially correct. Good understanding shown	Answers question completely & correctly. Full understanding shown
Question 3	Off topic. Little understanding shown.	Does not answer question completely or correctly. Partial understanding shown.	Answers question partially or answer is partially correct. Good understanding shown of parts of the topic	Answers question completely & is partially correct. Good understanding shown	Answers question completely & correctly. Full understanding shown
Question 4	Off topic. Little understanding shown.	Does not answer question completely or correctly. Partial understanding shown.	Answers question partially or answer is partially correct. Good understanding shown of parts of the topic	Answers question completely & is partially correct. Good understanding shown	Answers question completely & correctly. Full understanding shown
Question 5	Off topic. Little understanding shown.	Does not answer question completely or correctly. Partial understanding shown.	Answers question partially or answer is partially correct. Good understanding shown of parts of the topic	Answers question completely & is partially correct. Good understanding shown	Answers question completely & correctly. Full understanding shown
Question 6	Off topic. Little understanding shown.	Does not answer question completely or correctly. Partial understanding shown.	Answers question partially or answer is partially correct. Good understanding shown of parts of the topic	Answers question completely & is partially correct. Good understanding shown	Answers question completely & correctly. Full understanding shown
Layout of the brochure / pamphlet	Layout is confusing. Components are inconsistent and information is missing.	Layout is disorganized. A few components are consistent. Bits of information can be located.	Layout is somewhat organized. Some components are consistent. Partial information can be located.	Layout is organized. Most components are consistent within the publication. Information can be located.	Layout is well organized. There is consistency in its components that allow the reader to easily locate information
Written Requirements	1	2	3	4	5
Content & Organization	Does not meet requirements No planning evident; disorganized	Missing some requirements Attempts organization; Few, if any, transitions between ideas	Some requirements met Ideas loosely connected; transitions evident	Most requirements met Logical progression of ideas; moderately fluent; attempt compositional risks	All requirements met Logical progression of ideas; fluent, cohesive; compositional risks successful
Sentence Structure	Details random, inappropriate, or barely apparent	Details lack elaboration or are repetitious	Uneven development of details	Details appropriate and varied	Details effective, vivid, explicit, and/or pertinent
Grammar and Word Choice	No paragraph construction; assortment of incomplete and/or incorrect sentences	Paragraphs not well constructed; incomplete and/or incorrect sentences	Paragraphs not well constructed; partially complete/correct sentences	Paragraphs well constructed; sentences complete & correct	All paragraphs well constructed; most sentences complete & correct
Mechanics (spelling, capitalization, punctuation)	No apparent control; severe/numerous errors	Numerous errors	Some errors that do not interfere with the meaning	Few errors	Very few, if any, errors
Bibliography	Numerous errors	Many sources lacking; errors	Some sources missing or variety of sources lacking	Complete bibliography; some format errors	Complete bibliography

WRITTEN ELEMENTS EXPLAINED:

Content/Organization	Grammar	Structure	Mechanics
<ul style="list-style-type: none"> - Communicates intended message to intended audience - Opening and closing - Focused - Logical progression of ideas - Appropriate details & information 	<ul style="list-style-type: none"> - Tense formation - Subject-verb agreement - Pronoun usage/agreement - Word choice/meaning on topic 	<ul style="list-style-type: none"> - Variety of type, structure, and length - Correct construction 	<ul style="list-style-type: none"> - Spelling - Capitalization - Punctuation

