

## Earth systems in silence presentation handout.

**Objective:** Students will be able to illustrate the connection between earth and social science in a recent natural disaster. \_\_\_ / 32 points (Each item is scored on a 4 point scale.)

1. Read and discuss with your class the *New York Times* article, “Earth Science Meets Social Science” (Dreifus 2006). Be prepared to share one piece of information from the article that had the most impact on you!
2. Select a country and its recent natural disaster from the following list (Each group must have a different event.):
  - Algeria: earthquake, 2003
  - China: earthquake, 2008
  - China: floods, 2008
  - Haiti: hurricane and tropical storm, 2004
  - Honduras: hurricane, 2005
  - India: floods, 2007
  - Iran: earthquake, 2004
  - Iran: earthquake, 2006
  - Peru: earthquake, 2007
  - Pakistan: earthquake, 2005
  - Philippines: landslide, 2006
  - Sri Lanka: tsunami, 2004
  - Sudan: floods, 2007
  - Turkey: earthquake, 2003
  - United States: hurricane, 2005
3. Do an internet (or library) search for the disaster by country name, disaster type and year (e.g., Afghanistan earthquake, 2002). Read news articles and find photos of the event.
4. Develop a silent PowerPoint slideshow (16 slide minimum) to tell the story of the natural disaster in (brief) words and pictures. Put together your slideshow using a combination of statistics, photos, and headlines (your own headlines, or those you find). Each slide should have at least one photo, and only a headline or brief statistic text (no more than one sentence long). No other text should be used! Do not use bulleted lists or paragraphs. The idea here is create impact with your use of words and photos. Be sure to cite all sources. All words and images need to be created in respect for the country and the people who were involved.

Half of the slides (8 slides) in your story should refer to the science behind the natural disaster. These should be specific to the causes and processes that caused the disaster in that particular area and include related data.
5. Find the location of your country on a map. Include at least one map in your presentation.

6. Go to the Human Development Reports website at <http://hdr.undp.org/en/statistics>. Do a search for your selected country. Determine the Human Development Index for that country. Be sure you understand what this means and why it is significant. Include this in your presentation.
7. Also include the following in your presentation:
  - Date(s) of the disaster
  - Number of people killed
  - Number of people affected in various ways (in general or specifically, as in number homeless, those without food, electricity, etc.)
  - Economic impact (This may include buildings, food crops, etc.)
  - Science satellite images or related maps or photos
  - Statements or photos which show the impact specifically on the poor and/or the helpless (such as children or the elderly)
  - Other items that you feel are important to include
8. Present your slideshow to the class in silence. No talking or further explanation is permitted. Keep this in mind as you create your show. Your slides must tell the story without your input!
9. Cite all photograph sources in proper format.