

Name _____ Date _____ Period _____

SS6G9 The student will discuss environmental issues in Europe.

a. Explain the major concerns of Europeans regarding the issues such as acid rain in Germany, air pollution in the United Kingdom, and the nuclear disaster in Chernobyl, Ukraine

You must read **1, 2, and 3** in the background information section. Choose **a** or **b** in the background information section; you do not have to read both. Decide which topic interests you the most, then

Choice board must be completed by the due date - 1/25/2016 .

Background Information (Complete 1, 2, and 3--a or b)

1. Acid Rain in Germany

Choice A http://www.conserve-energy-future.com/causes-and-effects-of-acid-rain.php Article and video about acid rain	Choice B https://youtu.be/Nf8cuvl62Vc Video about acid rain
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2. Air Pollution in the United Kingdom

Choice A http://www.bbc.com/news/uk-26851399 Air pollution in the UK	Choice B https://www.youtube.com/watch?v=CmYIezmXAho Air pollution in the United Kingdom
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3. Nuclear Disaster in Chernobyl, Ukraine

Choice A http://www.nrc.gov/reading-rm/doc-collections/fact-sheets/chernobyl-bg.html Nuclear disaster in Chernobyl	Choice B https://www.youtube.com/watch?v=0k3wnXBE5S0 Video – Primary Source by Mikhail Gorbachev
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Choose Your Topic (select _____)

1. Acid Rain in Germany

<p>Choice A Imagine you are an animal in an area affected by acid rain, What might be the effects on your habitat, food, and health? Create a Powtoon or comic strip showing and describing your problem.</p>	<p>Choice B Imagine you are an animal in an area affected by acid rain, What might be the effects on your habitat, food, and health? Read the article http://geography.about.com/od/globalproblemsandissues/a/acidrain.htm and construct a diagram of the effects of acid rain.</p>	<p>Choice C Imagine you are an animal in an area affected by acid rain, What might be the effects on your habitat, food, and health? Investigate how Germany is addressing the effects of acid rain.</p>	<p>Choice D Imagine you are an animal in an area affected by acid rain, What might be the effects on your habitat, food, and health? Read the articles: http://www.dw.com/en/germany-controversially-still-bombards-forests-with-limestone-to-combat-acid-rain/a-17239231 and http://voices.nationalgeographic.com/2013/04/10/west-virginia-fights-acid-rain-by-dumping-limestone-into-streams/ and analyze how the dumping of limestone will help or hurt you. Choose a format of presentation (Prezi, PowerPoint, report, etc) for presentation of your findings.</p>
<p>Choice Aa How has acid rain affected other European countries? Complete a chart using the 5Ws (who, what, when, and where)</p>	<p>Choice Bb How has acid rain affected other European countries? Using pictures (drawn, copy & pasted, or cut out), show how acid rain has affected other European countries.</p>	<p>Choice Cc How has acid rain affected other European countries? Investigate how other countries in Europe are affected and how they are dealing with the effects of acid rain.</p>	<p>Choice Dd How has acid rain affected other European countries? Analyze the current effects of acid rain in Europe and create a plan to solve the issues.</p>

2. Air Pollution in the United Kingdom

<p>Choice A What are the primary sources of air pollution in the UK? Name each one.</p>	<p>Choice B What are the primary sources of air pollution in the UK? Explain how each source occurs and its effect.</p>	<p>Choice C What are the primary sources of air pollution in the UK? Assess the current policies to improve the air quality in the UK. How well are they working?</p>	<p>Choice D What are the primary sources of air pollution in the UK? http://www.theguardian.com/environment/2016/jan/13/air-pollution-uk-environment-ministers-face-court-action-within-weeks Read the following article and prove that environmental ministers should or should not be taken to court.</p>
<p>Choice Aa Read the article below then play the Air Quality game. http://familydoctor.org/familydoctor/en/prevention-wellness/staying-healthy/first-aid/air-pollution.html Game: http://www3.epa.gov/airnow/aqikids/games/health/game.html</p>	<p>Choice Bb Read the article below then summarize the information you learned by creating a brochure for a doctor's office discussing air pollution and health . http://familydoctor.org/familydoctor/en/prevention-wellness/staying-healthy/first-aid/air-pollution.html</p>	<p>Choice Cc Read the article and compare the health effects of air pollution to the health effects of radiation. http://familydoctor.org/familydoctor/en/prevention-wellness/staying-healthy/first-aid/air-pollution.html (Air Pollution) http://www.who.int/ionizing_radiation/chernobyl/background/en/ (Radiation)</p>	<p>Choice Dd Using this quote: "Air pollution does not recognize national borders." Read the articles below and prove air pollution does not recognize national borders. http://www.weather.com/science/environment/news/pollution-asia-affects-weather-united-states http://www.livescience.com/7916-pollution-travels-globe-</p>

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3. Nuclear Disaster in Chernobyl, Ukraine

<p>Choice A www.greenfacts.org/en/chernobyl/index.htm</p> <p>After reading the summary of each section, answer the following questions:</p> <p>*1. What was the extent of the Chernobyl accident?</p> <p>*2. How has human health been affected by the Chernobyl accident?</p> <p>*3. How has the environment been affected by the Chernobyl accident?</p> <p>*4. How are highly contaminated areas managed?</p> <p>*5. What are the social and economic costs of the Chernobyl accident?</p> <p>*6. What are the current concerns and needs of affected people?</p>	<p>Choice B www.greenfacts.org/en/chernobyl/index.htm</p> <p>After reading the details, create a cause and effect chart of Chernobyl based on being a farmer, doctor, business owner, or student stating the effects of the disaster on your life.</p>	<p>Choice C www.greenfacts.org/en/chernobyl/index.htm</p> <p>After reading details/source, examine weather patterns over Chernobyl during the crisis and 30 days after. How did the weather pattern contribute to the effects of Chernobyl spreading? Develop a presentation using detailed maps or drawings showing your discoveries.</p>	<p>Choice D www.greenfacts.org/en/chernobyl/index.htm</p> <p>After reading the sources, investigate how policies and regulations changed after Chernobyl so this disaster is not repeated. Develop your own regulation or policy citing evidence from what you have learned.</p>
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<p>Choice Aa Create a report about Chernobyl that addresses: environment, health, and economic issues</p>	<p>Choice Bb Read the article or watch the video about The Three Mile Isle Accident, then compare it to the Nuclear Disaster in Chernobyl http://www.history.com/topics/three-mile-island Article https://www.youtube.com/watch?v=u0jKYk-dmVg Video</p>	<p>Choice Cc Weather can cause pollution to move, but how does pollution affect weather? After reading the article (http://www.cnn.com/2014/04/15/world/asia/asia-air-pollution-pacific-storm/), Create a hypothesis about pollution and the future effects on weather http://www.cnn.com/2014/04/15/world/asia/asia-air-pollution-pacific-storm/</p>	<p>Choice Dd Design an evacuation plan that could have been used to prevent the incidents in Ukraine after Chernobyl. How could your evacuation plan have helped the victims of Chernobyl?</p>
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Culminating Task (Choose 1)

1. Create a mock TV show panel where the audience will ask specific questions to three different people about the effects of acid rain in Germany, air pollution in the United Kingdom, and the nuclear disaster in Chernobyl, Ukraine. Be sure to include dialogue that has both questions and responses.

2. Evaluate the European countries listed below regarding their solutions/governmental policies pertaining to each of the environmental issues. If a country has made substantial gains or has effective policies in place, put a check in the small inset box. If a country has significant environmental problems and/or has not developed appropriate policies regarding these issues, place a minus in the small inset box. List one example to support your decision, such as a particular policy that was enacted to reduce air pollution in a given country.

Teacher instructions: Print Page 14 from this link:

<https://www.georgiastandards.org/Frameworks/GSO%20Frameworks/SS%20Gr%206%20Unit%203.pdf>

3. Display your knowledge in another way (you must have approval from your teacher).