Human Impact WebQuest How do human activities affect the biosphere? Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Climate change**

<https://19january2017snapshot.epa.gov/climatechange/climate-change-basic-information_.html>

1. What are the major types of physical evidence for climate change?

2. What is climate change?

3. What is global warming?

4. What is the greenhouse effect?

5. Do you think we could survive on Earth without the greenhouse effect? Explain

**Greenhouse Gases**

<https://19january2017snapshot.epa.gov/ghgemissions/global-greenhouse-gas-emissions-data_.html>

1. What are the two largest greenhouse gases?

2. Where does each come from?

3. Read the trends in global emissions graph and identify the change in greenhouse gases from 1970 to 2010.

4. Look at the emissions by country graph and identify the country that produces the most and least greenhouse gases.

**Acid Rain**

<https://www.wonderworksonline.com/science-library/atmosphere-climate/acid-rain/>

1. What is acid rain? What pH range is considered acid rain?

2. What are the main gases that cause acid rain?

3. How can acid rain affect plants and trees?

4. How can acid rain affect organisms that live in the water?

5. How can acid rain affect buildings?

**Ozone Depletion**

<http://envis.tropmet.res.in/kidscorner/ozone.htm>

1. What is ozone?

2. Why is the ozone layer important to life on Earth?

3. What is the difference between “bad” and “good” ozone?

4. What is ozone depletion and what causes it?

5. What causes the ozone hole?

6. How does ozone depletion impact human health?

7. What impact does ozone depletion have on plant and animal life?

**Renewable and Nonrenewable Resources**

<http://www.childrensuniversity.manchester.ac.uk/interactives/science/energy/renewable/>

Go through the animation and answer the following questions

1. What is a nonrenewable resource?

2. What is a renewable resource?

3. Why is the sun renewable, but oil is nonrenewable? (Use what you just learned about these resources to determine this answer)

4. How is fresh water both a renewable and a limited resource? (Think about what we learned about fresh vs. salt water)

**Deforestation**

<http://kids.mongabay.com/lesson_plans/lisa_algee/deforestation.html>

1. What is deforestation?

2. List the causes of deforestation.

3. Which forest has the highest rate of deforestation?

4. The amount of rainforest lost every second can be compared to what?

3. What are the environmental consequences associated with deforestation?

**Biodiversity**

<http://actionbiodiversity.org/2010/07/human-benefits-of-biodiversity/> (Just watch the first video)

1. What is biodiversity? (Use your knowledge of root words to determine this answer)

2. Would the tropical rainforest ecosystem fall apart if you removed a single species? Why or Why Not?

3. What is a keystone species?

What was an example of a keystone species in the coral reef ecosystem?

**Invasive or non-native species**

<https://sites.google.com/site/humanpopulationgrowthwebquest/home/non-native-species>

1. What is a non-native species?

2. Why are non-native species dangerous to ecosystems?

3. How were Zebra mussels introduced in the United States?

4. What impacts have the rapid growth of zebra mussels had?

5. Why was kudzu brought over to the United States?

6. How much can kudzu grow in a hot summer month?