

Earth / Environmental Natural Resources- EC

Assignment One:

Investigate North Carolina's renewable and non-renewable resources

Prepare a Fact Paper on your findings. Use the bullet items as subtopics for your paper.

The Fact Paper is to include

- Identify NC's renewable and non-renewable natural resources
- Where are these resources located in NC.
- What has been the amount of these resources taken for commercial use over the last ten years?
- What products made from these resources
- What is the economic worth of these resources annually in dollars to NC
- Describe three steps that North Carolina could take to conserve its natural resources

Assignment Two:

Investigate the United States' dependence on petroleum.

Prepare a Fact Paper on your finding. Use the bullet items as subtopics for your paper.

The Fact Paper is to include:

- Where does most of the oil used in the United States come from?
- Which countries have the largest petroleum reserves?
- Describe the significance of the Hubbert Curve
- For what purpose is most oil in the United States consumed?
- What evidence do you have that the United States is very dependent on petroleum?
- What are the sources of data that provide the evidence that the United States is dependent on petroleum?
- Describe three steps that the United States could take to reduce foreign dependence on oil.

Assignment Three:

Investigate the United States' dependence on coal and natural gas

Prepare a Fact Paper on your findings. Use the bullet items as subtopics for your paper.

The Fact Paper is to include:

- How is coal formed?
- What is the difference in peat, lignite, bituminous, and anthracite?
- Where is coal found in the United States? Use a map to indicate coal type concentrations.
- For what purpose is most coal in the United States consumed?
- What is the value of coal to the United States' economy?
- How is natural gas formed?
- Where is natural gas found in the United States? Use a map to indicate location and concentration.
- For purpose is most natural gas in the United States consumed?
- What is the value of natural gas to the United States' economy?
- Describe three steps that the United States could take to reduce its dependence on coal and natural gas.

Assignment Four:

Investigate the impact of the world's growing population on the consumption of natural resources.

Prepare a Fact Paper on your findings. Use the bullet items as subtopics for your paper.

The Fact Paper is to include:

- What has been the world population growth rate from 1900 to present?
- What countries have the greatest population and how do these countries regulate their population growth?
- What is the population J – curve and what are the factors that effect the population growth and decline?
- What are the impacts of having all of the world's population at the U.S. standard of living?
- Describe three steps that the leading countries could take to accommodate the population growth and the consumption of natural resources.

Assignment Five:

Investigate alternate energy sources

Prepare a Fact Paper on your findings. Use the bullet items as subtopics for your paper.

The Fact Paper is to include:

- What are the advantages and disadvantages of each alternate energy source: Solar, Wind, Wave, Tidal, Geothermal, Hydropower, Biomass, Nuclear
- Which renewable energy source do you think has the most promise for the future? Consider source access, regulation, technology, public acceptance, cost for consumer, focus on residential or commercial use. Give evidence for your choice.

Assignment Six

Sustainable Planning

Select a theme and design a comprehensive sustainable plan that allows mankind to continue on Earth.

- ✓ The plan should outline the issue that is cause for the plan.
- ✓ The plan is a detail description of steps to be taken by individual citizens, local governments, state governments, and national government.
- ✓ The plan should be a poster that uses a full sheet of posterboard.
- ✓ You must use all of the posterboard.
- ✓ You must use color!
- ✓ It must be neat!
- ✓ The answers to assignments 1-5 must be glued to the back of the poster!

You may consider the following areas as you design your sustainable plan

- **Methods of conservation**
- **Recycling**
- **Reuse**
- **Rehabilitation of disturbed lands**
- **Technology**
- **Regulations**
- **Consumer incentives**
- **Consumption**
- **Products**
- **Pollution of air, water, and land**
- **Extinction of plants and animals**
- **Preservation of natural areas**
- **Deforestation and Reforestation**
- **Food availability**
- **Distribution of electricity in under-developed countries**
- **Health and sanitation**
- **Global warming**
- **Population growth**
- **Political stability**
- **Economic stability**
- **Resource depletion**
- **Waste storage and disposal**
- **Renewable energy sources**
- **Energy efficiency**
- **Nature's Laws**
- **Price of economics, social and environmental components**
- **Mankind relation with planet**