



AOI
Human Ingenuity

Unit Question
How do we make something limited last?

Significant Concept
Some of our most important sources of energy are finite. We need to conserve as well as develop new alternatives.

Final Presentation: Can a dirty today lead to a clean tomorrow?

Due Date: 15 November 2011 (Tuesday)

Directions: For your summative assessment, you are going to create a presentation answering the question: ***How do we make something limited last – can a dirty today lead to a clean tomorrow?*** Your presentation will focus on fossil fuel production and use in Azerbaijan and how we can conserve or create alternatives to fossil fuel use.

Your product will be a slideshow or poster addressing the question: *How do we make something limited last – can a dirty today lead to a clean tomorrow?* Read ALL of the information below in order to fully understand what is required for this presentation.

Your presentation may be a slideshow or a poster, but you may NOT include text other than slide titles or labels on charts, graphs and pictures. You will present ALL information orally!

You will need to answer the following questions in your presentation: (This is the same whether you are doing a slideshow or a poster.)

1. How is energy produced in Azerbaijan?
 - a. From where do we get it?
 - b. How do we get it?
2. What are fossil fuels?
3. Why do we use fossil fuels?
4. Why are fossil fuels limited?
5. What can we do to make our energy resources last as long as possible?
 - a. What choices can we as individuals make to help conserve energy?
 - b. What choices can we as a society make to help conserve energy?
6. What are the negative effects of fossil fuels on the environment?
7. What can we do to use fossil fuels in the cleanest way possible?
 - a. What technologies make fossil fuels cleaner?
 - b. Are there any realistic alternatives to fossil fuels?
8. What sources did you use? You will need to include a complete bibliography with all of the sources that you used for your presentation. **THIS INCLUDES CITATIONS FOR PICTURES/GRAPHS/CHARTS!** Make sure that you correctly cite all sources – you need to give credit where credit is due!

Remember: You may not include text in your presentation – that's what you will be presenting orally. You should have pictures, graphs, tables, charts, etc, with titles and labels, but **NO WRITTEN TEXT**. You will present information orally during your class presentation.

Assessment Criteria appear below. Read them carefully!!!

Criterion A: One World (max: 6)

Achievement Level	a) How is science used to help conserve fossil fuels? How is science used to help protect the environment? How is science used to help make dirty fuels cleaner?
0	• You do not reach a standard described by any of the descriptors below.
1 – 2	• You give some examples of the way in which science is used to help conserve fossil fuels, and/or protect the environment, and/or help make dirty fuels cleaner with some mistakes and/or omissions.
3 – 4	• You give examples of ways in which science is used to help conserve fossil fuels, and protect the environment, and help make dirty fuels cleaner with some mistakes and/or omissions.
5 – 6	• You give examples and comment on the ways in which science is used to help conserve fossil fuels, protect the environment, and help make dirty fuels cleaner.

Criterion B: Communication in science (max: 6)

Achievement Level	a) How well do you use scientific words?	b) How well do you describe/explain/present scientific information?	c) How clearly do you say from where you got information?
0	• You do not reach a standard described by any of the descriptors below.	• You do not reach a standard described by any of the descriptors below.	• You do not reach a standard described by any of the descriptors below.
1 – 2	• You use some scientific language, although there are often mistakes.	• You communicate limited scientific information about fossil fuels, clean energy, or fossil fuel use in Azerbaijan and you demonstrate only partial understanding of the science.	• You make little attempt to document sources of information. You do not include a bibliography or your bibliography is extremely limited and/or inaccurate.
3 – 4	• You use some scientific language correctly with some mistakes and/or omissions.	• You communicate scientific information with some effectiveness. You demonstrate a good understanding of the science with some mistakes and/or omissions.	• You partially document sources of information in a bibliography with some mistakes and/or omissions.
5 – 6	• You use scientific language correctly. You use appropriate scientific terminology related to fossil fuels, conservation of fossil fuels, and alternative energies.	• You communicate scientific information effectively and demonstrate a very good understanding of the science.	• You fully document sources of information correctly in a bibliography.