



Environmental Windows

Part 1: Art Work...

Art Piece & Written Paragraph Requirements

Role: Artist

Audience: Environmental Art Gallery Visitors (a.k.a. our visitors to the Cultural Fair & Open House)

Format: "Stained glass window panel" with artist's name(s) printed in pencil in lower right corner of the art work & 2 paragraph Supporting Description.

Topic: Ecology, Ecosystems, and/or Natural Resources

"Stained glass window panel is created in class with materials provided. These items are: 1 piece of 4.25" by 5.5" black construction paper, multicolored tissue paper, and glue stick. Additional materials: glue stick, scissors, hole punch. Each

Due dates:

End of class on Tuesday

Title of Art Work (or your portion of it)

By:

Name

Class Period

Part 2: The table below contains vocabulary related to the topic of "Ecology, Ecosystems and/or Natural Resources", select words that can be used when describing how your art work invokes or relates to the topic. Then write a 2 paragraph supporting description.

| | | | | |
|---|-----------------------|--|-----------------------------|------------------------------|
| Matter and Energy Cycles (water, carbon, nitrogen, ...) | Organisms | Interactions, Relationships, or Interrelationships | Physical environment | Other: _____ |
| Ecosystems | Habitats | distribution | Factors (Biotic or abiotic) | energy |
| Example(s) of Natural Resources | Conversion or Convert | Renewable or non-renewable resources | Impact or Effect when used | Extraction or Removal Method |

to invoke- to call on, to raise, to bring up, to introduce, to be the cause of

Part 3: Supporting Description using the vocabulary you selected (in context), to write 2 paragraphs which provide additional supporting details. Points are awarded based upon the paragraphs, number of vocabulary words which are used, and there is an advanced learner bonus for using a quote and citing the source. See the other side for details.

Use complete sentences. Descriptions may be hand written on binder paper or typed.

Part 4: Grading: See rubric on back.

Sample for Mrs. Fischer's Erlenmeyer
Flask Ecology Window...

The Erlenmeyer Flask window portrays a tool used by Environmental Scientists during the testing of one of our natural resources, fresh water. Contaminated ground water, raw sewage, and chemicals can seep into our underground & surface water reservoirs which if not monitored can be consumed by humans. Air pollution from car exhaust and factories, as well as other airborne particulates can enter into the water cycle during condensation, when clouds are forming and can cause acid rain. The acid rain falls over land and water, changing the pH of streams, lakes and can contaminate our water supply in reservoirs. Organisms in ecosystems are also effected. Organisms in Virginia's Shenandoah River become stressed when the water is not in "a range of pH 6.5 to 8.0" , as a result, their reproduction is reduced and populations of fish, plants, and others are reduced. (Friends of the Shenandoah River, 2008)

The Erlenmeyer flask can be used to hold a water sample from the river. The water can be tested for pH, and other abiotic factors such as chemical contaminants. By studying the things which change in ecosystems, scientists can determine the distribution & effects of pollution, and make recommendations to companies and governments about better ways to protect habitats.

Bibliography:

Friends of the Shenandoah River. May 18, 2008. <http://www.fosr.org/data/WaterParameters.cfm>

| Grade based upon | Points possible | Points recieved |
|---|-------------------------------------|-----------------|
| Art Work Completed with title | 25 | |
| Supporting Description -accurate spelling and grammar (includes punctuation) -two paragraphs -complete sentences -statements have supporting details | 10 | |
| # of vocabulary words used in paragraphs (must be underlined & in context) - minimum of 3 words required; 5 points per word | 5 x ____ 15 min. | |
| AV Bonus: Quote with reference used -quotation marks used -parenthetical citation -Correct bibliography format • location of commas, periods, • order of items to include, • hanging indent • Alphabetical by author (applies only if there is more than one entry) | (+10 or +12 if more than one entry) | |
| Total | 50 | |