

WHAT DOES IT TAKE TO MAKE ELECTRICITY? - Student Activity

Date: _____

Group: _____

Topic: _____

Work Outline

Research:

The research should be divided up so that each student is doing an equal part. List which student is doing the research in the space provided.

Research Areas:

1. Where does this energy source come from? Is it renewable or non-renewable (explain)? Where is it used in Alberta and Canada? _____

(researching student)

2. How is electricity produced from this energy source? _____

(researching student)

3. What are the benefits and challenges related to this energy source (environmental, economic, social)? _____

(researching student)

Project:

Your first task as a group is to decide what type of presentation you want to make. Will it be a poster? Maybe a PowerPoint presentation? A skit? Once you have decided, assign each group member a specific job.

For example:

Presentation: Poster

Student #1 – Collects pictures and labels them.

Student #2 – Prints out information required for the poster as collected from other students' research.

Student #3 – Title, placement and finishing details.

(student)

(specific job)

(student)

(specific job)

(student)

(specific job)

WHAT DOES IT TAKE TO MAKE ELECTRICITY? - Evaluation

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Evaluation Rubric	Beginning 1	Developing 2	Accomplished 3	Exemplary 4	Group Score
Work Outline	Outline vague and unclear about what student tasks are.	Outline complete but work and tasks are not distributed equally among members.	Outline is complete; work was distributed equally but outline was not followed (some members did not follow the outline).	Outline is complete; work was distributed equally among all group members and outline was followed.	
Research 1. Where does energy source come from / where is it used?	Missing three or more elements. See box 4 for list of elements.	Missing any two elements. See box 4 for list of elements.	Missing any one element. See box 4 for list of elements.	<ul style="list-style-type: none"> • Source stated and description of origin present. • Designated renewable or non – renewable with explanation. • Location of use in Alberta and Canada is given. 	
Research 2. How is electricity produced from this energy source?	Missing three or more elements. See box 4 for list of elements.	Missing any two elements. See box 4 for list of elements.	Missing any one element. See box 4 for list of elements.	Includes description of processing, transportation to power plant if necessary and power generation explained.	
Research 3. What are the benefits and challenges related to this energy source?	Only 2 costs and/or benefits of using the source are examined and not all areas are recognized (environmental, social and economic).	Includes 3 costs and/or benefits of using the source and not all areas are recognized (environmental, social and economic).	Includes 4 costs and/or benefits of using source and not all areas are recognized (environmental, social and economic).	Includes at least 5 costs and/or benefits of using source and all areas are recognized (economic, social and environmental).	
Presentation of Topic	Missing three or more elements. See box 4 for list of elements.	Missing any two elements. See box 4 for list of elements.	Missing any one element. See box 4 for list of elements.	Presentation is visually pleasing; neat and organized; easy to read and understand; pictures and /or diagrams enhance understanding of the topic.	

WHAT DOES IT TAKE TO MAKE ELECTRICITY? - Evaluation

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Peer Evaluation

Please rate yourself and your group members on the contributions to the project. Your ratings will be used to determine each students' mark along with the group mark.

Do not base your evaluations on friendship or personality conflicts. Your input is valuable to assessing contributions fairly. **THESE EVALUATIONS WILL NOT BE SEEN BY OTHER GROUP MEMBERS.**

Use the four point scale below to rate yourself and your peers. Insert your name in the first column and your group members' names in the remaining columns.

- 4 — Superior
- 3 — Above Average
- 2 — Average
- 1 — Weak

Name				
Participated in group discussions.				
Contributed useful ideas and information.				
Respects and listens to group members' opinions.				
Quantity (amount) of work done.				
Quality of work done.				
Total Score				