

11th Grade EIC – Fall Project Rubric

How do forces of nature and human activities alter energy resources in the community and nationally?

Team Names: _____ Project: _____

NOTEBOOK

Element	Category Description	Points Earned
<i>1 - information is present, but is inaccurate, contains spelling errors and incorrect grammar</i>		
<i>3 - good information, minor spelling errors, gaps in information or understanding of scientific concepts</i>		
<i>5 - complete, clear, correct use of scientific principals and technology, clear and accurate labels, correct spelling and use of grammar</i>		
Scientific Experiment	<i>Project is a scientific experiment.</i>	5 4 3 2 1 0
Title	<i>The title should be short and catchy and should summarize the experimental project.</i>	5 4 3 2 1 0
Purpose	<i>The purpose is the problem being researched in question form.</i>	5 4 3 2 1 0
Hypothesis	<i>A hypothesis is a proposed solution to the problem being considered. It is a one-sentence answer to the purpose question.</i>	5 4 3 2 1 0
Manipulated Variable	<i>The manipulated variable is the one factor being tested and measured in the experiment.</i>	5 4 3 2 1 0
Controlled Variables	<i>The controlled variables are the factors that remain constant for each trial in the experiment.</i>	5 4 3 2 1 0
Measured Variable	<i>The measured variable is the factor being measured in the experiment. Metric units must be used for all measurements.</i>	5 4 3 2 1 0
Materials	<i>The materials are the "ingredients" for the experiment and include anything used to conduct the experiment.</i>	5 4 3 2 1 0
Procedure	<i>The procedure is the "recipe" for the experiment and should include every step taken to carry it out.</i>	5 4 3 2 1 0
Data Table	<i>A data table includes organized measurements and averages for each trial and is used to make graphs of the experimental results.</i>	5 4 3 2 1 0
Graph	<i>A graph is a pictorial representation of the data recorded on the data table. A one paragraph description of the graph should be included.</i>	5 4 3 2 1 0
Conclusion	<i>A conclusion is a statement that verifies, nullifies or proves inconclusive a given hypothesis and makes statements as to what further experimentation can be done to broaden the scope of the problem being considered.</i>	5 4 3 2 1 0
Research Paper	<i>A clean copy of the research paper is present and includes the title page, outline, paper body and works cited in MLA format.</i>	5 4 3 2 1 0
Science Fair Notebook	<i>The notebook is well organized, neat, and complete.</i>	5 4 3 2 1 0
Total Notebook Score	<i>Should be a score between 0-70</i>	

DISPLAY

Element	Category Description	Points Earned
Problem/Question		5 4 3 2 1 0
Hypothesis		5 4 3 2 1 0
Introduction		5 4 3 2 1 0
Abstract		5 4 3 2 1 0
Procedure / Materials		5 4 3 2 1 0
Procedure		5 4 3 2 1 0
Variables		5 4 3 2 1 0
Data / Graphs		5 4 3 2 1 0
Results		5 4 3 2 1 0
Conclusion		5 4 3 2 1 0
Creativity		5 4 3 2 1 0
Quality of the Display		10 9 8 7 6 5 4 3 2 1 0
Total Display Score	<i>Should be a score between 0-60</i>	

EIC WEB

Element	Category Description	Points Earned
Community Context	<i>Energy project takes into consideration energy usage patterns in existing community and alternatives available and most likely to be used in community</i>	5 4 3 2 1 0
Constructivist	<i>Energy project takes into consideration energy usage patterns in existing community and alternatives available and most likely to be used in community</i>	5 4 3 2 1 0
Cooperative/Independent	<i>Students show appropriate initiative in cooperating with teammates, working individually on discreet tasks and providing independent deliverables to team in a timely manner. Instructor help is solicited appropriately.</i>	5 4 3 2 1 0
Collaborative	<i>Students work as a team, soliciting input from all members and encouraging effective use of diverse skills of team members.</i>	5 4 3 2 1 0
Community Service	<i>The energy project produced community awareness or other tangible benefit in terms of reduced energy use or implementation of alternative clean energy sources in community</i>	5 4 3 2 1 0
Interdisciplinary	<i>Students should be able to demonstrate and tell a standard from each subject area and how it applies to their project.</i>	5 4 3 2 1 0
Total Web Score	<i>Should be a score between 0-30.</i>	

DELIVERABLES

Element	Category Description	Points Earned
<i>1 - task is not complete and or was submitted late (more than 1 EIC class period late). 3 - task is not complete and or was submitted late. 5 - task is complete Note: These scores could vary per student</i>		
Forms of Energy WS	<i>Students should complete and submit the forms of energy worksheet.</i>	5 4 3 2 1 0
Types of Ener. Poster	<i>Students have all information on their poster</i>	5 4 3 2 1 0
2 Exper. Outlines	<i>Students should submit 2 outlines each.</i>	5 4 3 2 1 0
Students have Materials	<i>All students have materials for class each day.</i>	5 4 3 2 1 0
Experiment Complete	<i>Student complete the experiment by the designated timeline</i>	5 4 3 2 1 0
Notebook and Display Complete	<i>Student complete the notebook and display by the designated timeline</i>	5 4 3 2 1 0
Attendance / participation	<i>Students are present for class and participate each week.</i>	5 4 3 2 1 0
Total Deliverables Score	<i>Should be a score between 0-35</i>	

Team Member _____

Total Score	
Element	Points Earned
Notebook (0-70pts)	
Display (0-60pts)	
Deliverables (0-35pts)	
EIC Web (0-30pts)	
Total Score out of 195	

Team Member _____

Total Score	
Element	Points Earned
Notebook (0-70pts)	
Display (0-60pts)	
Deliverables (0-35pts)	
EIC Web (0-30pts)	
Total Score out of 195	

Team Member _____

Total Score	
Element	Points Earned
Notebook (0-70pts)	
Display (0-60pts)	
Deliverables (0-35pts)	
EIC Web (0-30pts)	
Total Score out of 195	

Team Member _____

Total Score	
Element	Points Earned
Notebook (0-70pts)	
Display (0-60pts)	
Deliverables (0-35pts)	
EIC Web (0-30pts)	
Total Score out of 195	