

English Language Arts: Science/Technical Subjects
Reading and Writing Standards
Department: Tech. Ed.
Course: Power Mechanics I

Standard	Application of Standard	Unit	Level	Resources
CCSS.ELA-Literacy.RST.9-10.2 Determine the central ideas or conclusions of a text; trace the text’s explanation or depiction of a complex process, phenomenon, or concept; provide an accurate summary of the text.	Using multiple sources, students will research and read information about an alternative energy source from an instructor-provided list.	Alternative Energy	9-10	Nonfiction books, articles, maps, online databases, and educational journals resourced by students with LMC and teacher assistance
CCSS.ELA-Literacy.WST.9-10.2a Introduce a topic; organize complex ideas, concepts, and information to make important <u>connections</u> and distinctions; include formatting (e.g., headings), graphics (e.g., figures, tables), and multimedia when useful to aiding comprehension.	Students will create a presentation that will highlight the development of the chosen technology and how it is utilized today. The presentation will include images and at least one video file.	Alternative Energy	9-10	Nonfiction books, articles, maps, online databases, and educational journals resourced by students with LMC and teacher assistance

Name _____

Scoring Rubric

Standard	6	5	4	3	2	1
CCSS.ELA-Literacy.RST.9-10.2 Determine the central ideas or conclusions of a text; trace the text's explanation or depiction of a complex process, phenomenon, or concept; provide an accurate summary of the text.	Exemplary determination of the central ideas in a text and accurate summary	Excellent determination of the central ideas in a text and accurate summary	Moderate determination of the central ideas in a text and accurate summary	Acceptable determination of the central ideas in a text and accurate summary	Limited determination of the central ideas in a text and accurate summary	Lacks determination of the central ideas in a text and accurate summary
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Percentages	100	90	80	70	60	50

Score _____

Comments: _____

Alternative Energy Reading, Research and Presentation Prompt:

We have traditionally used fossil fuels to provide most of our energy needs. These fossil fuels, like gasoline and coal, have some significant disadvantages. First, the world's supply of these nonrenewable resources is diminishing. Second, the prices continue to skyrocket, making it unaffordable for many people. Third, fossil fuels are damaging to the environment. Because of these three reasons, we are beginning to look at alternative energy sources.

To better understand the various alternative energy options that exist, each student is to pick one topic from the list below (one student per topic). Research is to be performed to develop an understanding of the:

1. The history of the chosen alternative energy topic.
2. The method that the alternative energy is generated (how it works).
3. Current uses in the US and/or world.
4. Cost comparison versus other sources of energy (minimum this has to compare against current traditional hydrocarbon)
5. Projections of future viability and therefore use of this particular alternative energy.

Students will take the compiled information and produce the following:

One or two typed paragraph(s) that summarizes the results of your research.

A presentation (Powerpoint or Prezi) that will be presented to the class...5-10 minutes.

A printed bibliography of sources used.

List of Alternative Energy Topics:

Wind

Solar

Hydroelectric

Nuclear

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CCSS.ELA-Literacy.RST.9-10.2 Determine the central ideas or conclusions of a text; trace the text's explanation or depiction of a complex process, phenomenon, or concept; provide an accurate summary of the text.	Using multiple sources, students will research and read information about current flight, history of flight or an aeronautical principle from an instructor-provided list.	Airplane/Flight	9-10	Nonfiction books, articles, maps, online databases, and educational journals resourced by students with LMC and teacher assistance
CCSS.ELA-Literacy.WST.9-10.2a Introduce a topic; organize complex ideas, concepts, and information to make important <u>connections</u> and distinctions; include formatting (e.g., headings), graphics (e.g., figures, tables), and multimedia when useful to aiding comprehension.	Students will create a presentation that will highlight the development of the chosen technology and how it is utilized today. The presentation will include images and, if possible, video file.	Airplane/Flight	9-10	Nonfiction books, articles, maps, online databases, and educational journals resourced by students with LMC and teacher assistance

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Percentages	100	90	80	70	60	50

Score _____

Comments: _____

Airplane/Flight, Research and Presentation Prompt:

Manned flight is now considered routine but for the vast majority of people, we are simply users or beneficiaries of the technology.

To better understand current flight, history of flight or an aeronautical principle, each student is to pick one topic from the list below (one student per topic). Research is to be performed to develop an understanding of the:

1. What are the basic aerodynamic principles that are involved in flight?
2. How does a basic jet engine function?
3. What are the major components and function of an aircraft?
4. What are the uses for aircraft (military)?...give at least 3 specific examples with detailed descriptions.
5. What are the uses of aircraft (civilian)?...give at least 3 specific examples with detailed descriptions.
6. What is the history of the development of flight/aircraft?
7. You may submit an alternative question to research and answer with teacher approval.

Students will take the compiled information and produce the following:

One or two typed paragraph(s) that summarizes the results of your research.

A presentation (Powerpoint or Prezi) that will be presented to the class...5-10 minutes.

A printed bibliography of sources used.