Energy Source Period Score /

Names

Energy Sources Project

Each small group of students will be responsible for researching an energy source that they pick from a hat. They will do a class presentation, build a physical model, and participate in a debate with another energy source. The energy sources include: Biomass, Coal, Geothermal, Hydropower, Natural Gas, Nuclear, Petroleum, Propane, Solar, and Wind.

- **Presentation with Visual** (PowerPoint, Prezi, Google Slides) **5– 7 minutes** **20 pts**

History & Politics

Physics (as well as applicable Chemistry, Biology, Geology, etc.) of your Energy Source

Production & Use of Your Energy Source (including maps and/or charts)
- Southern California Production & Use
- National Production & Use
- Global Production & Use
- Imported/Exported
- Electricity Use (How? Why or why not?)

Answer the following topics:
(1) Why is your energy source an effective fuel?
(2) How does the use of your energy source effect the environment/earth's climate?
(3) What is the fuel mass to energy output? (not applicable to geothermal, hydropower, solar, wind)
(4) Explain the physics used to convert your energy source into electricity. (as applicable)
(5) What are the shortcomings of your source? What are possible solutions to these concerns? How difficult or easy are these to achieve?

➢ A Question & Answer time will follow the presentation. Q & A time is not included in the 5 – 7 minutes.

➢ Presentation Format:
- No more than 36 words per slide
- At least one picture / diagram / graph per slide
- No less than 34 size font

➢ Share all presentations with me at natefulmer@lcfef.org via **your student Google Drive**. Details provided in class.

Public Speaking Notes:
- Do not *read* from note cards or the power point
- Keep eyes upward on the audience
- Speak slowly and clearly
- Be mindful of time remaining
- Practice your presentation
- Be deliberate about your speech
- Maintain a formal tone
- Avoid using “Ummm” and “So yeah”
- Face the class, not the screen