**Energy Technology Project Guide**

Concepts related to energy are used in our everyday life. In addition, changes and advancements in energy technology are the "talk of the future".

1. **You will choose a specific energy technology to learn about.**

| * Electricity generation- choose a specific energy source * Lithium battery recycling * Large scale transportation- trains, planes, commuter trains | * Home heating/cooling efficiency * "Green" homes * Something else with approval * Electric cars |
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1. **You will research facts about the technology**
2. **You will use your notes to create the 1-page poster to summarize the technology and a 1-page diagram of the energy flow (from primary energy input to final output, with transfers and transformations along the way)**

**Facts to Find**

* Need- what need(s) does the technology address?
* Primary source of energy
* 3-5 steps of energy transfer or transformation, include specific names of energy
* Role of heat/thermal energy
* Inputs and outputs
* Pros- what are the benefits of the technology?
* Cons- what are the drawbacks of the technology?
* Efficiency- how efficient is the technology?
* Future- what can be improved? What new applications of the technology may arise?

**Poster**

* Bulleted information for each heading
* Pictures- 2 total

**Visual**

* Diagram of the energy flow from input to output
* Steps labeled with specific forms of energy
* Areas of "wasted energy" listed (heat waste or other losses
* Efficiency rating
* 8.5 x 11" poster, shoebox diorama, 2 min video/animation