

Energy Superheroes/Villains

Overview: You will create an energy “superhero” or “villain” that highlights the advantages and disadvantages of various types of energy. You may also be assigned to create sidekicks for your superhero or villain. Each superhero team will battle each villain team to decide which league will rule the world!

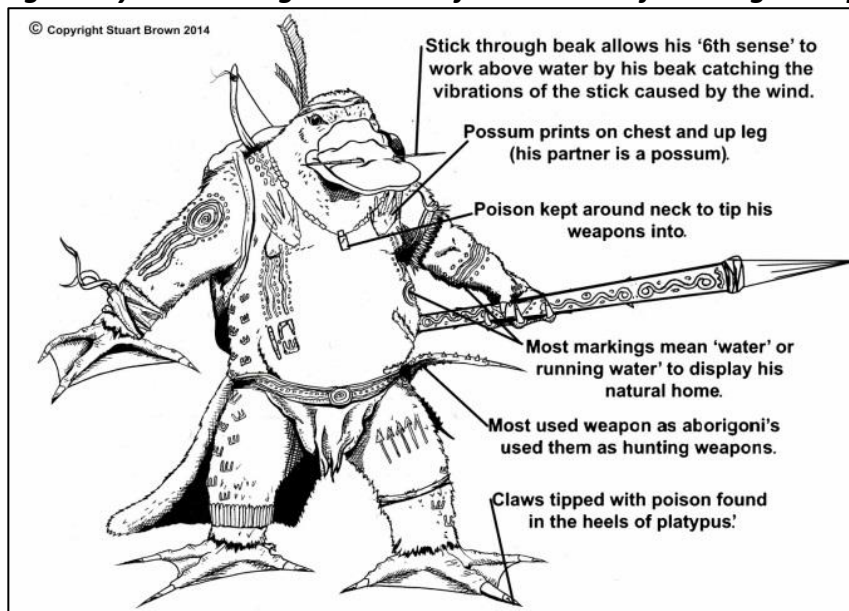
Superhero Choices: Wind, Solar, Hydropower (river and wave or tidal), Geothermal, Biomass (ethanol), Hydrogen fuel cells

Villain choices: Natural Gas, Coal, Petroleum (crude, oil sands, oil shales), Nuclear (fission)

Directions:

1. Read and take notes from your resources about your assigned energy source.
2. Create and diagram an “Energy Superhero” that highlights the advantages and disadvantages of this type of energy. Do the same if you have a villain.
3. Please include the following components in your visual diagram:
 - a. Superhero – what does he/she look like?
 - b. Clever Name – who is he/she?
 - c. Descriptions of main advantages – *Think of a creative way to communicate these. This could be done in his/her costume, accessories, dialogue bubbles or other items in your drawing. Identify a main superpower that corresponds with its strength.*
 - d. Descriptions of main disadvantages – *Think of a creative way to communicate these. This could be done in his/her costume, accessories, dialogue bubbles or other items in your drawing. Perhaps even identify his/her main nemesis.*

Organize your drawing in a similar format to the following example:



Energy Superhero/Villain Rubric

	Exemplary	Accomplished	Developing	Beginning
Drawing of Superhero/Villain	Image is complete, labeled, and greatly shows the energy source. (20)	Image is complete, labeled, and relates to energy source. (15)	Image/labels are incomplete. (10)	Image/labels are almost not present. (5)
Clever Name of Superhero/ Villain	Name clearly inspired by energy source. (15)	Name is connected to energy source. (12)	Name is somewhat related to energy source. (9)	Name does not relate to energy source. (6)
Main advantages highlighted (3)	Three or more advantages are drawn and labeled on the poster. Advantages clearly related to energy source (20)	Three advantages are drawn and labeled on the poster. Somewhat related to energy source. (15)	Two advantages are drawn and labeled on the poster. Somewhat related to energy source. (10)	One or no advantages are drawn and labeled on the poster. Does not relate to energy source. (5)
Main disadvantages highlighted (2)	Two or more disadvantages are drawn and labeled. Disadvantage clearly relate to energy source. (20)	Two disadvantage are drawn and labeled. Somewhat related to energy source. (15)	One disadvantage is drawn and labeled. Somewhat related to energy source. (10)	No disadvantages and/or does not relate to energy source. (5)
No Spelling/Grammar mistakes	Perfect no errors. (10)	1- 2 errors. (8)	3-5 errors. (6)	5 or more. (4)
Neatly drawn & colored	Picture is neat and completely colored. No pencil is shown. (15)	Picture is neat and completely colored. Some pencil is used. (12)	Picture is not fully colored. Neatness is to be desired. Pencil marks. (9)	Picture is not neat or colored. (6)

Total: _____

Comments: