

Monday February 6, 2012
Work Day 3—More Energy, Water and Food

1. In your description of how your energy source works remember to really explain the science. For solar energy, describe how solar panels work. For geothermal, describe how the energy is harnessed. Etc.
2. In your water section, please remember to tell me how many gallons a person gets every day and what they are used for. Don't forget to take into account all of the water that is used to grow the food that the person will eat.
3. For food...in case you did not look at or understand the info on energy levels and food here is a quick explanation. It is more efficient to be vegetarian. This does not mean that you have to be vegetarians, but it is much easier to feed your colonists if you don't have large animals like cows on your space station. A cow can only feed a few people, but it eats as much food and drinks as much water over the course of its life than many more people than it can feed. 90% of the energy is lost between trophic levels. Only 10% of the energy (calories) a cow eats is left when you consume the cow.

<http://michaelbluejay.com/veg/environment.html>

5. Alternative protein sources: bugs/worms, soy, and more—look into it! The lower the trophic level the more energy available.
6. Foods rich in vitamins and efficient at cleaning water—check out algae! If you use algae on your station, I want an explanation of the type of algae you chose and why. Site your sources!
7. And again...I need DETAILS and EXPLANATIONS!!!
8. Tell me today's code phrase for P/P points.

“I love snow days because I had more time to work on my project.”