

Exploring Renewable Energy



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St. Georges Vocational Technical High School
9th grade integrated science – Teacher: Dr. Lisa Currie



The object of teaching a child is to enable him to get along without a teacher."
-- **Elbert Hubbard**

Renewable Energy Assignment

Problem Based Learning (PBL)
project adapted from PBS
NewsHour energy project:

Part 1: Short essay

Discuss with class, and your
family the impacts of rising
energy costs

This was the key to the project! It
developed a personal link to the
problem and the students.



Why Care About Energy?

“My Dad said that I would have to give up my cell phone to save money”.



“Why don’t we just turn down the heat everyday until everyone complains, and then just turn it up a little”?



Part 2: Answer list of 12 questions about your assigned energy.

Part 3: Produce a five minute presentation on your form of energy with your group.

Each group is responsible for teaching the class and this will be on the final!

Solar

Wind

Hydro power

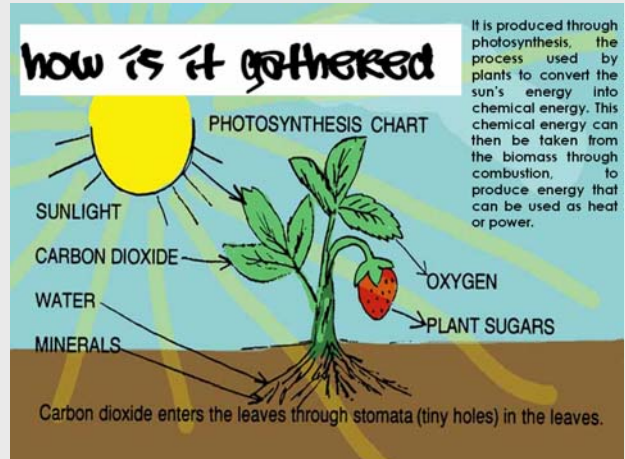
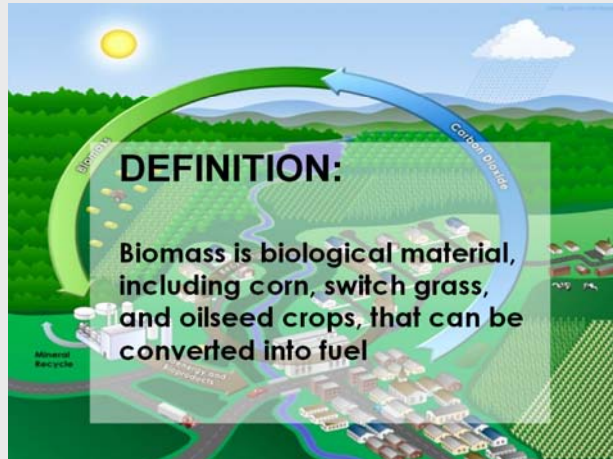
Geothermal

Green buildings

Biomass

biomass :)

PROJECT BY:
Rachel
Emily
Rhodson
 and
Andrew T.



Student Presentations

Solar Energy

By Breanna Smith, Lissa Hurtado, and Tori Edwards

Pros and Cons of solar energy

<p>PROS</p> <ul style="list-style-type: none"> * NO pollution * Financial incentives from the government * Can be generated anywhere 	<p>CONS</p> <ul style="list-style-type: none"> * Typically expensive to install * Takes up space * No power at night * Power output affected by bad weather
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How solar energy is used.

- * Solar energy is used to generate heat and electricity.
- * It can be used to heat water and heat spaces.

Were Our Goals Met?

Final exam: ALL students answered the questions on renewable energy correctly.

The students took the project and made it their own, the questions during presentations were excellent!

Key aspect: the discussion in the classroom and at home.

Science is part of everyday life!



Learning without thought is labor lost."
-- **Confucius**



Acknowledgments



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