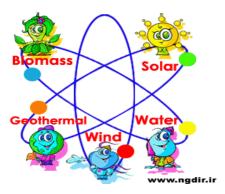


WINTER HOLIDAY SCIENCE PROJECT

GRADE 8 Energy Resources



You are going to design a leaflet that could be posted through letterboxes. Your company is the owner of the latest renewable energy source in your area. You want

your town to buy this alternative energy source from you.

Jul town to bu	iy this afternative energy source from you.	,
Week to be completed in:	Instructions	I have completed it
	Your first task is to research fossil fuels. What are they? How are they made? Why are they classed as non- renewable? This information has to be in your leaflet.	
	Your second task is to research renewable energy being used in your local area. Do any of your neighbours, family, and friends have solar panels on their roofs? Do you know any-one who lives near a wind farm? What are the advantages/disadvantages of both of these energy sources?	
	You third task is to research the opinion regarding renewable Vs non-renewable fuels. You can survey your friends or family or even a club you might attend.	
	Which type of renewable energy are you trying to sell? Your fourth task is to put together your research together onto your leaflet and advertise your energy source.	
	Your final task Show your leaflet to someone at home. What is their opinion? Have you changed their minds about renewable energy sources and Power in the future?	х

Final hand in date:

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5 th January 2020	

OR you can select a topic of your choice from the websites below

WINTER HOLIDAY ASSIGNMENT PROJECT STEPS

1. Visit the websites below and **choose a topic of your choice**. Be sure it interests you and it can be done by you. Don't pick one because you think it will be easy.

https://www.sciencebuddies.org/science-fair-projects/project-ideas/list

http://www.education.com/science-fair/middle-school/

- 2. State your purpose as a question. What is it that you want to find out by doing this project?
- 3. Research your problem. Look at any books/websites that might help you, make observations by simply looking at things, talk to people, and find out as much as possible about your topic. Write down any ideas you have and where you got them. Also, keep note of all information needed for citing your resources.
- 4. Form a hypothesis. What do you think is going to happen? Based on what you know or found out from step #3, what do you think the results of your experiments will be? After doing the experiments, it may turn out that your guess was wrong. It is okay if this happens.
- 5. Plan your project. How will you test your hypothesis? What experiments will you do? How will you measure the results? Where will you keep your information? Be sure to keep notes and write down everything you do and what happens.
- 6. Collect all your materials. Find a place to keep things where others won't bother them. Let other family members know what you are doing so they do not throw your materials away by mistake.
- 7. Conduct your experiments. Remember, the more times you do an experiment the more reliable and accurate the results will be. Do each experiment at least three times and get an average of the results for your graph. Use something to measure your experiments: a ruler or yardstick if you are measuring distance, a clock to measure time, etc. Check the measurements to be sure you are correct.
- 8. Record your data. As you do your experiments, you will want to write down what you saw or found out. Organize this information in an orderly manner. Put the date, time, and any other useful information. Write your measurements clearly.
- 9. Draw conclusions. What did you learn from your experiments? Have you proved or disproved your hypothesis? You made a guess about what you thought would happen. Now tell what really did happen. You don't lose points if your guess turned out to be wrong.
- 10. Prepare your titles, charts, graphs, drawings, and diagrams. Make them large enough to see, neat, and colourful.
- 11. Construct your science project display. can show all your work and have your hands free to point to sections when you give your presentation.
- 12. Prepare and practice your presentation. Be able to tell about what you used what you did in your experiments, and what you found out. Know it well enough that you don't have to read it from the display.
- 13. Plan a time line so you don't leave everything until the last minute. If you need help, tell your parents and your teacher, the earlier the better.
- 14. Relax and Enjoy yourself. You will do a GREAT job!