

Name \_\_\_\_\_ Date \_\_\_\_\_ Class 8- \_\_\_\_\_

Mrs. Collins

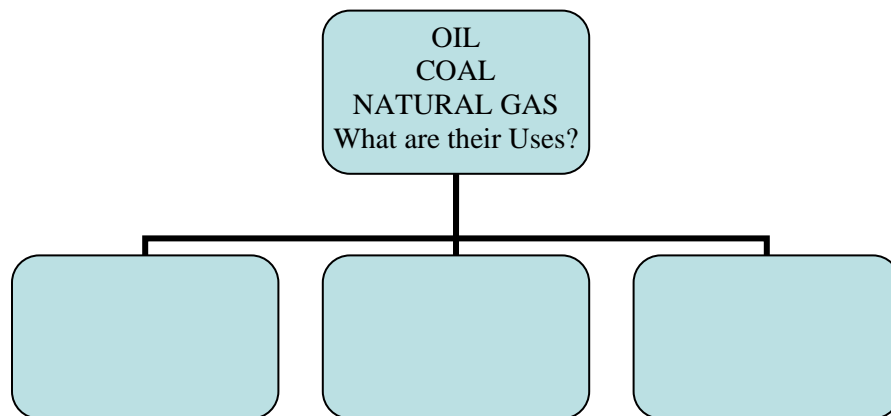
St. Joan of Arc School

### CHAPTER 5 SCIENCE MEDIA ASSIGNMENT

In chapter 5 we have been learning how renewable and nonrenewable resources are being used to make things for our everyday use. We have also discussed how the usages of these resources are depleting vital minerals and fossil fuels from our earth. You will watch a video from Discovery Education about how researchers and scientists are finding resources from algae or “pondscum”. Please follow all directions so that you may be able to answer the questions correctly.

Background: please use your textbooks to fill in the following chart

What are Fossil Fuels? \_\_\_\_\_



Directions:

1. Go to [www.discoveryeducation.com](http://www.discoveryeducation.com)
2. Select the Passcode/New User tab and enter the school’s passcode which is: 4C30-9F04
3. Click on Submit to create your own username and password. You must write this information down as this will be your personal and private name and password. We will be using this site many times during the year and this site will also be useful to you for your Science Fair project.
4. At the top center of the page there is a search engine. Plug in the words: oil from algae video and press “search”. This should lead you to two choices of video: “Oil from

Algae?” (5:26) or “Fuel Alternatives” (9:27). You will be watching the “Oil from Algae?” video segment

5. Watch the video and answer the following questions. \*\*NOTE: you may need to watch this video segment a few times before you are able to answer the questions, so TAKE YOUR TIME!!!\*\*

Questions from “Oil from Algae?” Video Segment

1. Algae is considered the \_\_\_\_\_ oil source.
2. Algae does not come from \_\_\_\_\_ bur from prehistoric \_\_\_\_\_.
3. Because algae takes over tens of thousands of years to reproduce it is considered \_\_\_\_\_.
4. The name of the company that has created different kinds of oil from different kinds of algae and has made the first jet fuel made from algae. \_\_\_\_\_
5. What do the scientists “feed” the algae? \_\_\_\_\_
6. How many barrels of algal oil does the currently have to use and make fuel out of? \_\_\_\_\_
7. What is the strategy for the company? (What do they want to do?) \_\_\_\_\_  
\_\_\_\_\_
8. What is the other company based out of Texas that uses algae to make oil? \_\_\_\_\_
9. What does this company use to get their algae “fat with oil?” \_\_\_\_\_
10. The algae \_\_\_\_\_ allows the algae to grow in less space and indoors rather than outdoors.
11. The scientists want the algae to get as much sunlight as possible to carry out \_\_\_\_\_.
12. What are the three benefits from growing algae in a laboratory than in a pond?
  - a. \_\_\_\_\_
  - b. \_\_\_\_\_
  - c. \_\_\_\_\_
13. How long do the companies believe that it will take before all cars are able to run on algal oil? \_\_\_\_\_
14. Do you think that oil made from algae will become popular in today’s society? Why or why not? \_\_\_\_\_  
\_\_\_\_\_