

Title - What is Cogeneration?

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Subject -Vocational Trades, (Can easily be used by all other classes)

Grade Level - Grades: 9-12

This lesson plan I have added to my "emergency lesson plan" folder. That is it is in a list of lesson plans that I have on hand for those days when you have little time to prepare for a sudden IEP or other meeting that you receive almost no notice of!

Substitute:

Write the 8 questions on the board. **(DO NOT WRITE THE ANSWERS! THEY ARE NEXT TO THE QUESTION SO YOU CAN HELP THE STUDENTS MAKE SURE THEY HAVE THE RIGHT ANSWER.)**

Tell the students that all the answers to the questions are to be found by watching the video. **AFTER** they have watched the video tell the students may work together in groups to make sure they have all the answers. **(TELL THEM THIS ONLY AFTER THEY HAVE WATCHED THE VIDEO OR THEY WON'T TRY TO ANSWER ANY OF THE QUESTIONS ON THEIR OWN!)**

Put the VCR tape "What is Cogeneration?" in the VCR. (Check volume level from back of room.)

1. What is the type of fuel used by a cogeneration plant to make heat? **((NATURAL GAS))**
2. In what month and year did low cost oil dry up and force California to look to other sources? **((October, 1973))**
3. What three types of power plants do we normally rely on to provide us with electricity? **((coal, oil, nuclear))**
4. How many power plants did Charles Warren say we needed to build in California between 1973 and the year 2000 to keep up with the power we use? **((60 to 80))**
5. How many cogeneration plants are in use in California right now? **((500))**
6. How many homes do cogeneration plants in California supply electricity to right now? **((5 million))**

True or False

7. Cogeneration plants take longer to build and are more costly than other power plants. **((F))**
8. Cogeneration is one of the fastest growing sources of electrical energy in California and the rest of the country. **((T))**