

November 6 - 10, 2017

MON. NOV. 6TH

TUE. NOV. 7TH

WED. NOV. 8TH

THU. NOV. 9TH

FRI. NOV. 10TH

7th Grade Science
Chapter 13: Energy Resources - Phenomenon "Can wind or solar power our lives?"

Standards

, MS-ESS3-1 , MS-ESS3-4 , MS-ESS3-5

Objective

1. Students will demonstrate knowledge of fossil fuels

Critical Questions

1. What are the three major fossil fuels?
2. Why are fossil fuels nonrenewable resources?

Entice

- data interpretation graph
- Watch video on oil & gas formation <https://youtu.be/8YHsxXEVb1M>

Engagement

Jigsaw reading. Each topic is:

1. What are the three major fossil fuels? Why are they nonrenewable resources?
2. Coal
3. Oil
4. Natural gas

Assessment

Socratic question "why are fossil fuels considered nonrenewable resources?"

Homework

7th Grade Science
Chapter 13: Energy Resources - Explore Phenomenon Lab

Standards

, MS-ESS3-1 , MS-ESS3-4 , MS-ESS3-5

Objective

Students will build an anemometer and measure wind energy

Critical Questions

How can wind power produce electricity?

Entice

- data interpretation graph
- "Pass the paper" about one thing that they learned yesterday

Engagement

Lab "Building an Anemometer and Measuring Wind Speed"
 Building an anemometer lab instructions.pdf

Assessment

Answer questions about lab experiments with wind gauge

Homework

7th Grade Science
Chapter 13 Energy Resources - Explain

Standards

, MS-ESS3-1 , MS-ESS3-4 , MS-ESS3-5

Objective

1. Students will gather and synthesize information about renewable sources of energy
2. Students will interpret information to explain how a nuclear power plant produces information

Critical Questions

1. What are some renewable sources of energy?
2. How does a nuclear plant produce electricity?

Entice

data interpretation graph

Engagement

- Each person will be assigned one topic to read: (1) solar energy, (2) hydroelectric power, (3) wind power, (4) nuclear power, (5) biomass fuels, (6) geothermal energy, (7) electric cars and hydrogen fuel cells
- each person will go back to lab group and present their information to the group

Assessment

Peer quiz: "Based on the types of renewable energy sources that you learned about today, which one do you think will be most sustainable for society and why?"

7th Grade Science
Chapter 13 Energy Resources - Explain

Standards

, MS-ESS3-1 , MS-ESS3-4 , MS-ESS3-5

Objective

1. Students will gather and synthesize information about renewable sources of energy
2. Students will interpret information to explain how a nuclear power plant produces information

Critical Questions

1. What are some renewable sources of energy?
2. How does a nuclear plant produce electricity?

Entice

- Quiz
- data interpretation graph

Engage

- finish presentations from previous day if necessary
- get in lab groups and read article about nuclear fission energy <https://www.forbes.com/sites/startswithabang/2017/04/12/the-future-of-energy-isnt-fossil-fuels-or-renewables-its-nuclear-fusion/#365af2203bee>

Assessment

Write on post it note and put on Wonder Wall: "One thing that you learned about nuclear fission from the article"

Homework

read article about potential clean sources of energy in the

7th Grade Science
Chapter 13 Energy Resources - Explain

Standards

, MS-ESS3-1 , MS-ESS3-4 , MS-ESS3-5

Objective

1. Students will gather and synthesize information to explain how human energy use has changed over time
2. Students will apply scientific ideas to describe ways to ensure that there will be enough energy for the future

Critical Questions

1. How has energy use changed over time?
2. How can we ensure there will be enough energy for the future

Entice

- data interpretation graph

Engage

Popcorn reading for lesson 3 of chapter as a class

Assessment

Ask class questions to turn in answers for the following questions:

1. How has energy use changed over time?
2. Describe two ways in which you can be more energy efficient

Homework**Reflections**

future:
<http://www.visualcapitalist.com/alternative-energy-sources-future/>

Reflections