Unit: Energy / Natural resources

Lesson: Nuclear Energy

Objective: Students will investigate the nuclear power process and conduct a half-life simulation.

Bell Ringer: What fuel provides over half of the electricity in Pennsylvania?

Answer: Coal

The #2 power source is nuclear.

Nuclear Power

<http://www.youtube.com/watch?v=VJfIbBDR3e8>

Half-life: the time required for something to fall to half its initial value (the time for half the atoms in a radioactive substance to disintegrate)

Explain why this is important to waste management.

Lab on Half-life

Discuss results and art work.

Dangers of Nuclear Power, and Waste.

<http://www.youtube.com/watch?v=luSpdSyT1ys>

Will Japan’s melt down be as bad as Chernobyl?

Describe

Exit Bell Ringer: What is the #2 source of electricity in Pennsylvania?

Answer: Nuclear