



NUCLEAR

NAME _____ HR _____

/18 points (watch powerpoint while answering questions)

1. What element is used to make nuclear power?
2. What is uranium? (describe its properties)
3. What type of energy is uranium if it hasn't been split yet?
4. What do they do to uranium at a nuclear power plant?
5. What is the process of splitting atoms called?
6. What is the process of joining atoms called? (the sun does it)
7. What is the biggest advantage of nuclear power?
8. Does nuclear power make CO₂? (greenhouse gas)
9. Does nuclear power make air pollution?
10. What is bad about radioactive nuclear waste?
11. Where was there a major nuclear power plant disaster?
12. How long will this land be unusable?
13. Is nuclear power renewable or non-renewable?
14. DRAW ARROWS TO SHOW HOW NUCLEAR POWER IS TURNED INTO ELECTRICAL POWER (5pts)

Electric energy is created and flows through wires to your home.

The motion energy of turbine blades spins a coil of wires near a magnet. The magnetic field starts pushing electrons.

The kinetic energy of steam allows it to spin blades (turbine).

Water molecules increase in speed so much that they become steam.

Uranium atoms are split into smaller atoms (FISSION).

Heat from the fission reaction is used to heat up water.