Name: ______
Period:

Nuclear Power

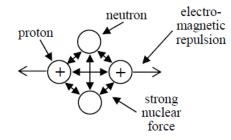
Atoms can be changed

Democritus believed there to be a smallest, indivisible particle: atomos. In the early 20th century scientists learned that the atom is indeed divisible and even fusible.

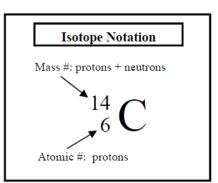
All Atoms are not Stable

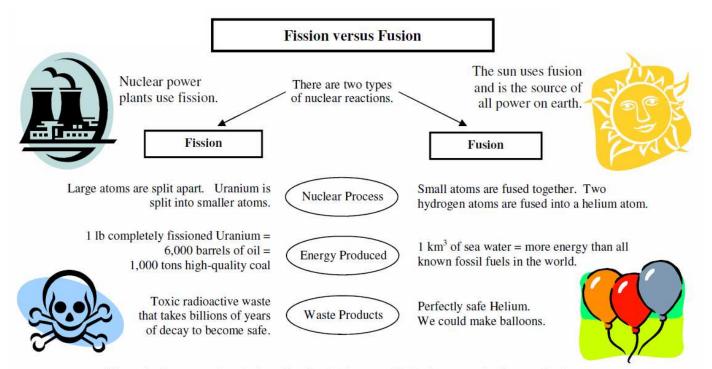
Democritus believed there to be a smallest, indivisible particle: atomos. In the early 20th century scientists learned that the atom is indeed divisible and fusible.

Protons and neutrons are known as **nucleons** because they are in the nucleus.



Neutrons add strong nuclear force without repelling the protons. Since the strong nuclear force only works over short distances eventually there are too many protons and the repulsion wins. Over 83 protons and the nucleus will undergo radioactive decay.





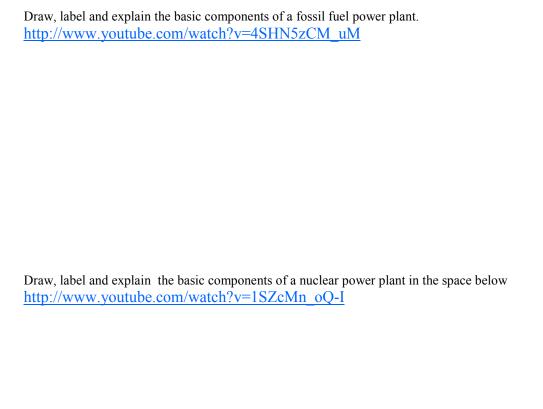
The real winner: nuclear fusion. So why don't we use it? Fusion occurs in the sun. It takes millions of degrees to even start fusion. So far we can't control it. But scientists are working on it.

As a future voter — demand money for fusion research!

What are your thoughts on Nuclear Energy? Should we use it? Why or why not.

Power Generation

WATCH THESE VIDEOS AND FOLLOW THE INSTRUCTIONS BELOW:



Draw, label and explain the basic components of a Hydroelectric dam. http://www.youtube.com/watch?v=cOqcivR1eQ4