

Chem 6.2

Goals:

- > Calculate the number of protons and neutrons in an isotope
- > Use the periodic table to identify elements based on data
- > Compare elements based on their properties

Plan:

Students will use M&M candy to get random isotopes

Students will identify isotopes based on the number of protons and neutrons

Students will complete lab activity to identify isotopes

HW: Students will complete isotopes and ions worksheet

Chem 6.2

Goals:

- Understand the major breakthroughs in nuclear technology
- Assess the major breakthroughs with the downsides of using this technology
- Formulate an argument for or against the discovery of nuclear power

Bellwork: Determine two pros and two cons to the discovery of gunpowder

Plan:

Short overview of the development of nuclear power (Manhattan Project and nuclear power)

Class discussion: pros and cons of nuclear power

Have nuclear weapons been good or bad for the world?

HW: Short response: How would the world today be different if we had not discovered nuclear energy or the technology from it?

Chem 6.3

Goals: Review atomic structure and isotopes

Plan:

Jeopardy game on atomic structure and isotopes

Final Jeopardy question: If you were tasked with cleaning a water source to make it suitable for drinking, outline the steps you would take. The water source currently contains litter from a nearby landfill, pesticide and fertilizer runoff from a farm field and ethanol (ethanol boils at a lower temperature than water)

HW: Review for test (next class)