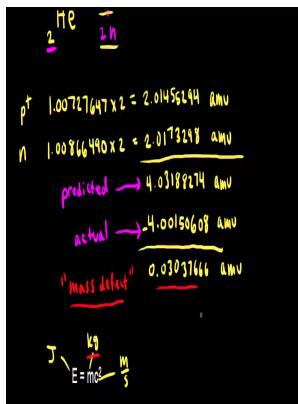


# Nuclear chemistry

## Prentice-Hall - 21.S: Nuclear Chemistry (Summary)



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However, in nuclear chemistry, the composition of the nucleus and the changes that occur there are very important. You will also discover why houses are tested for radon gas, how radiation is used to probe organs such as the brain, and how the energy from nuclear reactions can be harnessed to produce electricity.

### Nuclear chemistry

The n:p ratio increases, and the daughter nuclide lies closer to the band of stability than did the parent nuclide.

### Nuclear Equations

The overall mass number stays the same, but because the number of protons increases by one, the atomic number goes up by one. Unstable atoms do some nuclear reactions like radiation or decay and become stable atoms.

### CH103

In a given cobalt-60 source, since half of the nuclei decay every 5. In 1940, at the University of California in Berkeley, Edwin McMillan and Philip Abelson produced the first manmade element, neptunium Np , by the bombardment of uranium with low energy neutrons from a nuclear accelerator. Nuclear energy is the most environmentally efficient of all energy sources because it produces the most electricity in relation to its minimal environmental impact and there are no significant adverse effects to water, land, habitat, species, and air resources.

### Nuclear Chemistry

Modern nuclear chemistry, sometimes referred to as radiochemistry, has become very interdisciplinary in its applications, ranging from the study of the formation of the elements in the universe to the design of radioactive drugs for diagnostic medicine. Division of Nuclear Chemistry and Technology of the American Chemical Society.

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