

NUCLEAR CHEMISTRY WORKSHEET

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Most nuclear reactions involve changes in the number of protons and/or neutrons in the nucleus of an atom. These changes are called *transmutations* because an atom of one element is changed into an atom of a different element. During these changes, nuclear particles may be absorbed and/or emitted along with a release of energy.

There are four types of nuclear reactions:

- 1) *natural radioactive decay*: transmutations occur by natural radioactivity (the ability of a nucleus to emit a nuclear particle and energy without external stimulation);
- 2) *artificial transmutation*: transmutations occur by nuclear disintegration caused by external stimulation as a scientist bombards a nucleus with a particle (the addition of another nuclear particle makes the nucleus unstable);
- 3) *fission*: certain nuclei having a large mass are bombarded with special particles that cause the nuclei to split into two nuclei each having a smaller mass;
- 4) *fusion*: nuclei of light elements are combined to form heavier nuclei.

Nuclear reactions are written using symbols in the A_ZX notation. The symbols for the major nuclear particles involved in nuclear reactions are given below.

Alpha particle	${}^4_2\text{He}$ (an alpha particle is a helium nucleus)
Proton	${}^1_1\text{H}$ (the most common hydrogen nucleus is a proton)
Neutron	${}^1_0\text{n}$
Electron	${}^0_{-1}\text{e}$ or ${}^0_{-1}\beta$ (also called a beta particle)
Positron	${}^0_1\text{e}$ or ${}^0_1\beta$
Gamma ray	${}^0_0\gamma$

The table below contains information about nuclear reactions involving the emission of radiation.

Type of Reaction	NUCLEAR CHANGES		
	Radiation (Particle)	Effect on the Atomic Number	Effect on the Atomic Mass
Alpha emission (α)	${}^4_2\text{He}$	decrease by 2	decrease by 4
Beta emission (β)	${}^0_{-1}\text{e}$ or ${}^0_{-1}\beta$	increase by 1	no change
Positron emission (β^+)	${}^0_1\text{e}$ or ${}^0_1\beta$	decrease by 1	no change
Gamma emission	${}^0_0\gamma$	no change	no change
Electron capture (EC)	${}^0_{-1}\text{e}$ or ${}^0_{-1}\beta$	decrease by 1	no change

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1. Understanding the eBook Gcc Chm130ll Nuclear Chemistry Answers
 - The Rise of Digital Reading Gcc Chm130ll Nuclear Chemistry Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Gcc Chm130ll Nuclear Chemistry Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Gcc Chm130ll Nuclear Chemistry Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gcc Chm130ll Nuclear Chemistry Answers
 - Personalized Recommendations
 - Gcc Chm130ll Nuclear Chemistry Answers User Reviews and Ratings
 - Gcc Chm130ll Nuclear Chemistry Answers and Bestseller Lists
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 - Gcc Chm130ll Nuclear Chemistry Answers Enhanced eBook Features
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 - Highlighting and Note-Taking Gcc Chm130ll Nuclear Chemistry Answers
 - Interactive Elements Gcc Chm130ll Nuclear Chemistry Answers
8. Staying Engaged with Gcc Chm130ll Nuclear Chemistry Answers
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gcc Chm130ll Nuclear Chemistry Answers
9. Balancing eBooks and Physical Books Gcc Chm130ll Nuclear Chemistry Answers
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gcc Chm130ll Nuclear Chemistry Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Gcc Chm130ll Nuclear Chemistry Answers
- Setting Reading Goals Gcc Chm130ll Nuclear Chemistry Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gcc Chm130ll Nuclear Chemistry Answers
- Fact-Checking eBook Content of Gcc Chm130ll Nuclear Chemistry Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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