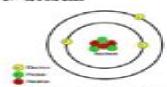
Atomic Structure – Study Guide Grade S – Physical Science

Atom -- smallest particle of an element that has all the properties of that element.

3 main subatomic particles:

- I. protons
- 2. neutrons
- 3. electrons



nucleus -- core of the atom, it is positively charged 99.9 % of the atoms mass is in the nucleus.

Protons and neutrons are found in the nucleus.

Protons — have a positive (+) charge. Found in the nucleus of the atom.

The number of protons determines what element an atom is.

Example: Carbon has 6 protons

Atomic Number - the number of protons, each element has it own unique number of protons.

 Neutrons — a neutral charge (no charge) found in the nucleus. These determine whether an element is radioactive.

Protons and neutrons are about ovar atomic mass unit (annu). Electrons have a much smaller mass — it takes almost 2000 electrons to equal 1 annu.

Atomic Mass - the total number of protons and neutrons.

Mass Number - Atomic Mass that is rounded.

To find just how many neutrons an atom has:

neutrons - atomic mass - atomic

Isotopes - atoms of the same element that have different number of neutrons.

Carbon-12 Carbon-14
6 protons 6 protons
6 neutrons 8 neutrons

NOTICE — the number of protons DOES NOT change if it is to be carbon — only the number of neutrons.

3. Electrons - have a negative (-) charge. Found moving around the atom is a space called orbital's (shells). Those electrons farthest away from the nucleus are called <u>valence electrons</u>, and are involved in the formation of chemical bonds.

In an uncharged atom the number of protons is equal to the number of electrons.

Ion - when an atom gains or loses an electron. (has a charge)

If an atom gains electrons = negative (-) charge

If an atom loses electrons - positive (+) charge

How to find:

protons - atomic

neutrons = atomic mass - atomic

electrons = atomic # — charge (if any)

Matter And Atomic Structure Study Guide Answers

Lei Shi

Matter And Atomic Structure Study Guide Answers:

This book delves into Matter And Atomic Structure Study Guide Answers. Matter And Atomic Structure Study Guide Answers is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Matter And Atomic Structure Study Guide Answers, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 2: Essential Elements of Matter And Atomic Structure Study Guide Answers
 - o Chapter 3: Matter And Atomic Structure Study Guide Answers in Everyday Life
 - Chapter 4: Matter And Atomic Structure Study Guide Answers in Specific Contexts
 - ∘ Chapter 5: Conclusion
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- 6. In chapter 5, this book will draw a conclusion about Matter And Atomic Structure Study Guide Answers. This chapter will summarize the key points that have been discussed throughout the book.
 - This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Matter And Atomic Structure Study Guide Answers.

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