

Bonding and Reactions

Study Guide

10 pages including KEY

Chemical Bonding and Reactions Study Guide

This study packet will help you study for the Chemical Bonding and Reactions exam by highlighting the most important concepts in the course. This packet highlights key concepts and their correct application in the course and should be used as a guide to focus on the material you should know.

B. VOCABULARY

Atom	Electron	Electron transfer	Electron transfer
Atomic mass	Electron	Electron transfer	Electron transfer
Atomic weight	Electron	Electron transfer	Electron transfer
Atomic	Electron	Electron transfer	Electron transfer
Chemical bond	Electron	Electron transfer	Electron transfer
Chemical reaction	Electron	Electron transfer	Electron transfer

C. READING

1. Why do atoms bond together?

2. What is a bond?

3. What kind of electrons form covalent bonds?

4. What is an ionic bond?

5. What kind of electrons form ionic bonds?

6. Why don't noble gases bond together with other elements?

Why do noble gases not bond together with other elements?

7. Why do noble gases not bond together with other elements?

8. Why do noble gases not bond together with other elements?

Why do noble gases not bond together with other elements?

9. Why do noble gases not bond together with other elements?

10. Why do noble gases not bond together with other elements?

REACTIONS

What happens in a chemical reaction?

Why do some reactions occur in a chemical reaction?

What is a chemical reaction?

What is a chemical reaction?

What is the law of conservation of mass?

What is the law of conservation of mass?

A chemical reaction is a process in which one or more substances are converted into one or more new substances. The substances that enter the reaction are called reactants, and the substances that are produced are called products.

1. What is a chemical reaction?

Chemical reactions are processes in which one or more substances are converted into one or more new substances. The substances that enter the reaction are called reactants, and the substances that are produced are called products.

2. What happens in a chemical reaction?

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Atom

Atomic mass

Atomic weight

Chemical bond

Chemical reaction

Electron

Electron transfer

Electron transfer

Electron transfer

Electron transfer

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ACT



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web on the basis of the entrance of the last electron either into 4 f orbital or 5 f orbital these elements are classified into two categories called lanthanides and actinides respectively lanthanides the name lanthanides comes from lanthanum la z 57 because these elements are closely related to lanthanum

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web the lanthanides and actinides including group 3 metals due to their chemical similarities account for around a third of the periodic table and they are key to a wide range of basic science research and societally beneficial technologies since 2019 is designated as international year of the periodic table it is an appropriate time to

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web the actinides are elements 89 to 103 and fill their 5f sublevel progressively actinides are typical metals and have properties of both the d block and the f block elements but they are also radioactive lanthanides have different chemistry from transition metals because their 4f orbitals are shielded from the atom s environment

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web dec 1 2022 lanthanides and actinides vary in electron filling order edit edit source the lanthanides and the actinides make up the f block of the periodic table the lanthanides are the elements produced as the 4f sublevel is filled with electrons and the actinides are formed while filling the 5f sublevel generally speaking the lanthanides

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comprehensive coverage of f block chemistry encompassing the following areas periodicity natural occurrence and extraction separations electronic structure coordination chemistry organometallic chemistry small

why lanthanides and actinides are separate on the periodic table - Jun 16 2022

web jun 27 2019 the lanthanides and actinides are arranged below with a notation in the main body cell rather than making room for all these elements in the 3b group in the main body of the periodic table because of the f shell electrons these two element groups are also known as the f block elements