



MERCY JUNIOR COLLEGE  
Grade 11  
Physical Science  
Finals Exam

NAME: \_\_\_\_\_

YEAR LEVEL & SECTION: \_\_\_\_\_

TEACHER'S NAME: \_\_\_\_\_

PROCTOR'S NAME: \_\_\_\_\_

1. MULTIPLE CHOICE

INSTRUCTION: Encircle the letter of the correct answer. (1 POINT EACH)

- It is a subatomic particle, symbol  $e^-$  or  $\beta^-$ , with a negative elementary electric charge.
  - Neutron
  - Electron
  - Proton
  - Atom
- It is a subatomic particle, symbol  $p$  or  $p^+$ , with a positive electric charge of  $+1e$  elementary charge and mass slightly less than that of a neutron.
  - Neutron
  - Electron
  - Proton
  - Atom
- It is a subatomic particle, symbol  $n$  or  $n^0$ , with no net electric charge and a mass slightly larger than that of a proton.
  - Neutron
  - Electron
  - Proton
  - Atom
- Is this an example of ionic bonding?



carbon dioxide

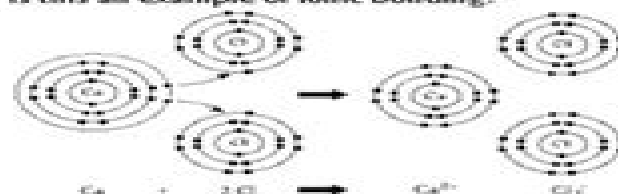
- Yes, it is ionic bonding.
- No, it is of another type of chemical bonding.
- There is no chemical bonding present.
- This is just an orbital model.

- Is this an example of ionic bonding?



lithium fluoride

- Yes, it is ionic bonding.
  - No, it is of another type of chemical bonding.
  - There is no chemical bonding present.
  - This is just an orbital model.
- In atomic physics and quantum chemistry, the electron configuration is the distribution of electrons of an atom or molecule in atomic or molecular orbitals.
    - Electron Configuration
    - Periodic Table of Elements
    - Orbital Models
    - Energy Levels
  - Is this an example of ionic bonding?



- Yes, it is ionic bonding.
  - No, it is of another type of chemical bonding.
  - There is no chemical bonding present.
  - This is just an orbital model.
- It is a chemical rule of thumb that reflects observation that atoms of main-group elements tend to combine in such a way that each atom has eight electrons in its valence shell, giving it the same electronic configuration as a noble gas.
    - Octet Rule
    - Valence Electrons
    - Atomic Orbitals
    - Chemical Bonds
  - It is the smallest constituent unit of ordinary matter that has the properties of a chemical element.
    - Neutron
    - Electron
    - Proton
    - Atom
  - It is a type of chemical bond that involves the electrostatic attraction between oppositely

# Grade12014 Physical Science Final Exam Scope

**Huangqi Zhang**



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## **Table of Contents Grade12014 Physical Science Final Exam Scope**

1. Understanding the eBook Grade12014 Physical Science Final Exam Scope
  - The Rise of Digital Reading Grade12014 Physical Science Final Exam Scope
  - Advantages of eBooks Over Traditional Books
2. Identifying Grade12014 Physical Science Final Exam Scope
  - 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 Grade12014 Physical Science Final Exam Scope
  - User-Friendly Interface
4. Exploring eBook Recommendations from Grade12014 Physical Science Final Exam Scope
  - Personalized Recommendations
  - Grade12014 Physical Science Final Exam Scope User Reviews and Ratings
  - Grade12014 Physical Science Final Exam Scope and Bestseller Lists
5. Accessing Grade12014 Physical Science Final Exam Scope Free and Paid eBooks

- Grade12014 Physical Science Final Exam Scope Public Domain eBooks
  - Grade12014 Physical Science Final Exam Scope eBook Subscription Services
  - Grade12014 Physical Science Final Exam Scope Budget-Friendly Options
6. Navigating Grade12014 Physical Science Final Exam Scope eBook Formats
    - ePub, PDF, MOBI, and More
    - Grade12014 Physical Science Final Exam Scope Compatibility with Devices
    - Grade12014 Physical Science Final Exam Scope Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Grade12014 Physical Science Final Exam Scope
    - Highlighting and Note-Taking Grade12014 Physical Science Final Exam Scope
    - Interactive Elements Grade12014 Physical Science Final Exam Scope
  8. Staying Engaged with Grade12014 Physical Science Final Exam Scope
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Grade12014 Physical Science Final Exam Scope
  9. Balancing eBooks and Physical Books Grade12014 Physical Science Final Exam Scope
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Grade12014 Physical Science Final Exam Scope
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Grade12014 Physical Science Final Exam Scope
    - Setting Reading Goals Grade12014 Physical Science Final Exam Scope
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Grade12014 Physical Science Final Exam Scope
    - Fact-Checking eBook Content of Grade12014 Physical Science Final Exam Scope
    - 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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