

C11- PHYSICAL SCIENCE
Third Monthly Test Reviewer

Coverage: **MODULE 1**
UNIT 1: Atomic Theory
UNIT 2: The Discovery and Synthesis of Chemical Elements

UNIT 1: Atomic Theory

- Atoms are composed of **protons**, **neutrons**, and **electrons**.



Table 2.3 Properties of Subatomic Particles

Particle	Symbol	Mass (kg)	Relative Mass (proton =1)	Relative Charge
Proton	p^+	1.673×10^{-27}	1	+1
Neutron	n^0	1.675×10^{-27}	1	0
Electron	e^-	9.109×10^{-31}	0.00055	-1

- An atom is mostly empty space with a highly dense, **positive** center called **nucleus**.
- For a neutral atom, the **number of protons is equivalent to the number of electrons**.
(Lithium has 3 protons therefore it also has 3 electrons)
- The **atomic number** of an element is also equivalent to its number of **protons**.
(Nitrogen has an atomic number of 7 therefore it has 7 protons in its nucleus)
- The **atomic mass** (mass number) is primarily determined by the number of protons and **neutrons**.

- Isotopes** are atoms with the **same atomic number** but different mass numbers. They **differ in the number of neutrons**.
(Carbon-12, Carbon-13, Carbon-14)
- Ion** is an element or atom that has a **positive or negative net charge**. It is charged because the number of electrons does not equal the number of protons in the atom.

Two types:

- Cation**- positive ion (loses electron)
- Anion**- negative ion (gains electron)



- Take note that when an **atom is not electrically neutral**, it means that it does not have the same number of protons and electrons.
- When an atom or element is **positively charged**, it means that it has **more protons** in its nucleus.

Historical Development of Atom

- Democritus & Leucippus:**
Atomism: All matter is made up of very small, indivisible particles called atoms (atomos).
- Aristotle:** Four elements in nature (air, fire, water, and earth)
- John Dalton: Billiard Ball Model/Solid Sphere Model:**
Atomic Theory: All matter is made up of very small, indivisible particles called atoms.

Physical Science Gradeexemplar Caps 2014

Karin Nielsen-Saines



Physical Science Gradeexemplar Caps 2014:

The book delves into Physical Science Gradeexemplar Caps 2014. Physical Science Gradeexemplar Caps 2014 is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Physical Science Gradeexemplar Caps 2014, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Physical Science Gradeexemplar Caps 2014
- Chapter 2: Essential Elements of Physical Science Gradeexemplar Caps 2014
- Chapter 3: Physical Science Gradeexemplar Caps 2014 in Everyday Life
- Chapter 4: Physical Science Gradeexemplar Caps 2014 in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Physical Science Gradeexemplar Caps 2014. This chapter will explore what Physical Science Gradeexemplar Caps 2014 is, why Physical Science Gradeexemplar Caps 2014 is vital, and how to effectively learn about Physical Science Gradeexemplar Caps 2014.
3. In chapter 2, this book will delve into the foundational concepts of Physical Science Gradeexemplar Caps 2014. The second chapter will elucidate the essential principles that need to be understood to grasp Physical Science Gradeexemplar Caps 2014 in its entirety.
4. In chapter 3, the author will examine the practical applications of Physical Science Gradeexemplar Caps 2014 in daily life. The third chapter will showcase real-world examples of how Physical Science Gradeexemplar Caps 2014 can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Physical Science Gradeexemplar Caps 2014 in specific contexts. The fourth chapter will explore how Physical Science Gradeexemplar Caps 2014 is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Physical Science Gradeexemplar Caps 2014. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Physical Science Gradeexemplar Caps 2014.

https://crm.avenza.com/public/book-search/Documents/organic_chemistry_smith_3rd_ed_solutions_manual.pdf

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