

HOLT MODERN CHEMISTRY – CHAPTER 1 REVIEW

*The following pages contain the bulk (but not all) of the information for the chapter 1 test. Focus on this content, but make sure to review class notes, activities, handouts, questions, etc. If you study this document and NOTHING else, you should at least be able to PASS the test. ***** Test items will be recall, examples, and/or application of this content. ******

OUTCOMES

- 1.1: Distinguish between types of research – basic, applied, and technological development. (F & PK)
- 1.2: Distinguish between the physical and chemical properties of matter. (F & PK)
- 1.2: Distinguish among homogeneous and heterogeneous mixtures, elements, and compounds. (F & PK)
- 1.3: List properties of metals and non-metals. (T & R)
- 2.3: Determine significant figures. (F & PK)

1.1: CHEMISTRY IS A PHYSICAL SCIENCE

- **Vocabulary**
 - **chemistry** – the scientific study of the composition, structure, and properties of matter and the changes that matter undergoes
 - **chemical** – any substance with a defined composition
- **Chapter Highlights**
 - Chemistry is the study of the composition, structure, and properties of matter and the changes that matter undergoes.
 - A chemical is any substance that has a definite composition or is used or produced in a chemical process.
 - Basic research is carried out for the sake of increasing knowledge. Applied research is carried out to solve practical problems. Technological development involves the use of existing knowledge to make life easier or more convenient.

1.2: MATTER AND ITS PROPERTIES

- **Vocabulary**
 - **matter** – anything that has mass and takes up space
 - **mass** – a measure of the amount of matter in an object
 - **element** – a substance that cannot be separated or broken down into simpler substances by chemical means; all atoms of an element have the same atomic number
 - **atom** – the smallest unit of an element that maintains the chemical properties of that element
 - **compound** – a substance made up of atoms of two or more different elements joined by chemical bonds
 - **extensive property** – a property that depends on the extent or size of a system
 - **intensive property** – a property that does not depend on the amount of matter present, such as pressure, temperature, or density
 - **physical property** – a characteristic of a substance that does not involve a chemical change, such as density, color, or hardness
 - **physical change** – a change of matter from one form to another without a change in chemical properties
 - **change of state** – the change of a substance from one physical state to another
 - **solid** – the state of matter in which the volume and shape of a substance are fixed
 - **liquid** – the state of matter that has a definite volume but not a definite shape
 - **gas** – a form of matter that does not have a definite volume or shape
 - **plasma** – in physical science, a state of matter that starts as a gas and then becomes ionized; it consists of freemoving ions and electrons and it takes on an electric charge
 - **chemical property** – a property of matter that describes a substance's ability to participate in chemical reactions
 - **chemical change** – a change that occurs when one or more substances change into entirely new substances with different properties
 - **chemical reaction** – the process by which one or more substances change to produce one or more different substances
 - **reactant** – a substance or molecule that participates in a chemical reaction
 - **product** – a substance that forms in a chemical reaction

Modern Chemistry Ch 19 Section Review 1

Terry C. Jones



Modern Chemistry Ch 19 Section Review 1:

The Top Books of the Year Modern Chemistry Ch 19 Sectin Review 1 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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