

Physical Science 3rd Quarter Exam Reviewer

I. Origin of Elements

Nucleosynthesis- formation of elements through nuclear reactions

Lesson 1.1 The Light Elements

- **Bigbang Nucleosynthesis** - the process where light elements were formed
- **Hydrogen and Helium**- the first light elements to be formed
- **Rapid drop of temperature** from 10^{32} to 10^9
- **Quarks and Gluons**- condensed into nucleons which formed the light elements

Lesson 1.2 The Heavy Elements

- **Stellar Nucleosynthesis** - the formation of heavy elements by fusion of lighter nuclei in the interior of stars.
- **Nebulas** - cloud of Hydrogen and Helium
- **Protostar** - mass of H and He
- **Stars can only produced elements up to Iron**

Lesson 1.3 Formation of Elements heavier than Iron

- **Supernova nucleosynthesis** - the explosive death of star; the creation of new elements based on the intensity of the burst
- **Extreme temperatures and Abundant neutrons** - Two key characteristics of Supernova explosion
- **Neutron capture** - when the nuclei captures a electrically neutral neutron to form heavier elements than iron

Lesson 1.4 Chemical Elements and Isotopes in the Universe

- **Isotopes** -is a form of an element that has the same atomic number of the original element but with different atomic mass or mass number.
- **Stable Isotope** - are not radioactive
- **Unstable Isotope** - are radioactive; decays and emits positron and neutrino to form a new element
- **Positron** - same mass as the electron but its charge is positive
- **Neutrino** - massless and has no charge

II. The Atomic Theory

Lesson 2.1 The Atomic Theory: From the Ancient Greeks up to the Present

- **Empedocles' Theory** - proposed that there were four fundamental substances. These substances constitute all matter.
- **Democritus' Theory** - he claimed that everything is made up of atoms; he called the very tiny pieces of matter "atomos" which means indivisible; the atom is the smallest possible piece of matter.
- **Aristotles' Theory**
accepted the ideas of Empedocles and even added his own idea that the four substances could be transformed into other substances. he associated the four fundamental elements-earth, water, air and fire with four qualities: hot, moist, cold and dry.
- **Akhenys' Theory of Matter**
based on Aristotles' theory of two pairs of opposed qualities and the four elements produced by pairwise conjunction of the four qualities. ; when these elements inter-change qualities , they produce other substance.

Lesson 2.2 The Structure of the Atom

- **John Dalton** - proposed an atomic theory about indivisible building blocks of matter called atoms; atoms are spherical in shape and are always in motion.
- **Four Main Concepts of Dalton's Atomic Theory**
 - A. matter is composed of tiny, indivisible particles called atoms.
 - B. all atoms of the same element are identical in mass and properties.
 - C. compounds are formed by a combination of two or more different kinds of atoms.
 - D. a chemical reaction is a rearrangement of atoms.
- **Scientific Laws About Chemical Reactions**
 - A. 1. **Law of Conservation of Mass**
- Antoine Lavoisier in 1789
- This law states that the total mass in a chemical reaction remains constant.
 - B. **Law of Definite Proportions**
- Joseph Louis Proust in 1799

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**John Devaney, Caroline Bradbury-
Jones, Rebecca J. Macy, Carolina
Øverlien, Stephanie Holt**



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The Routledge International Handbook of Domestic Violence and Abuse John Devaney, Caroline Bradbury-Jones, Rebecca J. Macy, Carolina Øverlien, Stephanie Holt, 2021-03-17 This book makes an important contribution to the international understanding of domestic violence and shares the latest knowledge of what causes and sustains domestic violence between intimate partners as well as the effectiveness of responses in working with adult and child victims and those who act abusively towards their partners Drawing upon a wide range of contemporary research from across the globe it recognises that domestic violence is both universal but also shaped by local cultures and contexts Divided into seven parts Introduction Theoretical perspectives on domestic violence and abuse Domestic violence and abuse across the life course Manifestations of domestic violence and abuse Responding to domestic violence and abuse Researching domestic violence and abuse Concluding thoughts It will be of interest to all academics and students working in social work allied health sociology criminology and gender studies as well as policy professionals looking for new approaches to the subject

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