

# PHYSICAL SCIENCE chapter 1: THE ORIGIN OF ELEMENTS



## The Origin of Elements

### 1.1 The Composition of the Universe

Element ► substance made from one type of atom

☼ The universe is composed of 92 elements, beginning from the lightest hydrogen to the heaviest uranium.

☼ 73% of the mass of the universe is hydrogen, helium makes up about 25%, and the others 2%- a small portion of the universe make up most of the atoms present in our body and Earth

low-mass elements ► hydrogen & helium- formed in the hot, dense conditions of the birth of the universe itself

Nuclear reactions can describe the birth, life, and death of the stars.

### 1.2 The Nucleosynthesis Epoch

Nucleosynthesis

► Nucleo meaning nucleus; synthesis meaning putting together

► defined as the formation of elements by combining the simple nuclei or atomic particles by nuclear reaction with the help of extremely hot temperature and pressure

#### 1.2.1 The First 3 Minutes of the Big Bang

About 100 seconds after the Big Bang started, nuclear reactions began to form elements through the collision of protons and neutrons. Protons and neutrons can fuse to form isotopes of hydrogen, such as deuterium, through this nuclear reaction:

# Physical Science Chapter 1

**J Elliott**



## **Physical Science Chapter 1:**

## Decoding **Physical Science Chapter 1**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Physical Science Chapter 1**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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