Lesson 1

Chemistry 0

Fall 2021, L. Tracey Gao

Let's get to know each other!

- 1. Your name
- 2. Your school district and grade
- 3. One fun fact about yourself
- 4. What have you known about chemistry? Have you heard and known about elements and the periodic table?

Our Google Classroom

Chemistry O In Person

Sunday 9:15 am- 10:00 am

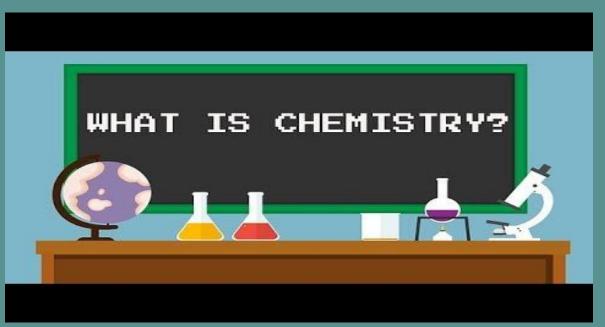
Class code 4uholzi

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What is Chemistry?

Chemistry is a physical science, and it is the study of matter and its properties. It helps us to describe and explain our world.



History of Chemistry

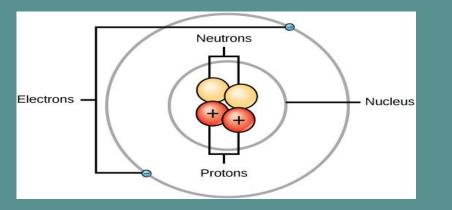
- 1. The first person we know of who asked questions about matter was Thales, a Greek philosopher.
- 2. Many of the Greek philosophers then were looking for the essence of all things.
- 3. Some early experimenters of chemistry were called the alchemists. They believed that they could turn lead into gold.
- 4. By doing quality experiments, early scientists were able to show that basic unit of matter is the atom.

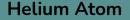
What Is an Atom?

- An atom is the smallest unit of matter that retains all of the chemical properties of an element.
- Atoms combine to form molecules, which then interact to form solids, gases, or liquids.

The Structure of the Atom

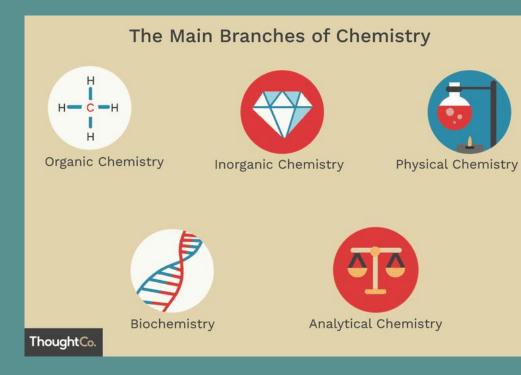
- Nucleus:
 - Protons: Positively Charged
 - Neutrons: No Charge
- Outer region of the atom: Electrons



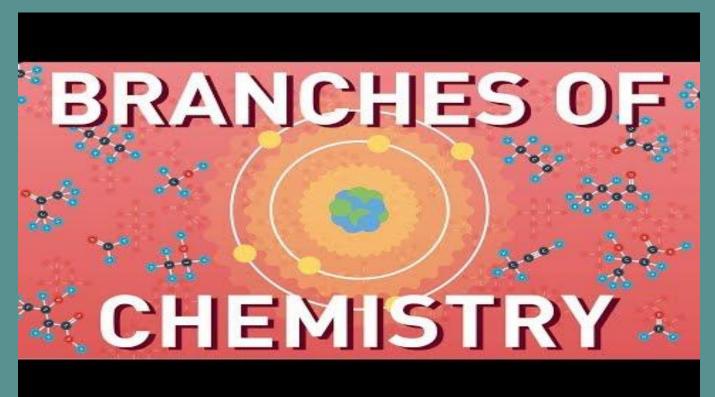


https://courses.lumenlearning.com/boundless-chemistry/chapter/the-structure-of-the-atom/

Branches of Chemistry



Branches of Chemistry



Basic Concepts

- Technology in Chemistry
- Matter- Solids, Liquids, and Gases
- Chemical Bonding
- The Periodic Table
- Naming Compounds
- Chemical Reactions
- Acid, Base and pH
- Balancing Simple Equations