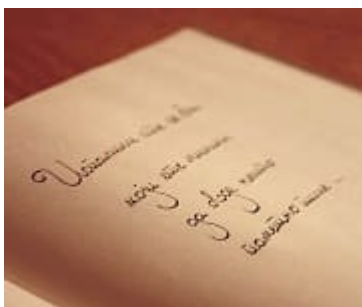


Chemistry and Global Awareness (Gordon)

<http://catdir.loc.gov/catdir/toc/eci...006015210.html>

Chemistry is all around us "from the air we breathe to the food we eat" to the items at the supermarket that say "no chemicals added". In fact, it is impossible to create something without using chemistry because chemistry consists of all matter. It allows us to answer questions as simple as why a candle goes out when a glass is placed over it to more complex questions such as does a candle actually burn in zero gravity? Chemistry is the study of matter and the changes it undergoes such as ice changing from the solid to liquid to gas phase. People have used it for things such as creating metal from an ore, dying fabric and making cheese. Chemistry deals with different substances and how they can interact with each other to create a product.

As you begin your study of college chemistry, those of you who do not intend to become professional chemists may well wonder why you need to study chemistry. You will soon discover that a basic understanding of chemistry is useful in a wide range of disciplines and career paths. You will also discover that an understanding of chemistry helps you make informed decisions about many issues that affect you, your community, and your world. A major goal of this text is to demonstrate the importance of chemistry in your daily life and in our collective understanding of both the physical world we occupy and the biological realm of which we are apart.



Front Matter



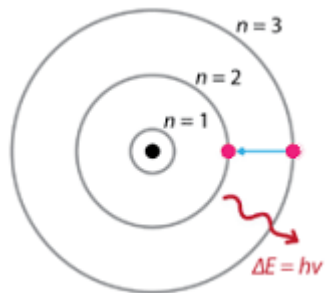
1: Introduction to Chemistry



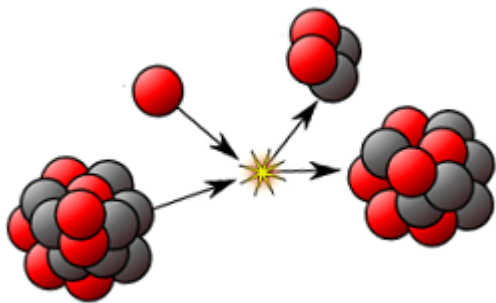
2: The Mathematics of Chemistry



3: Atoms and the Periodic Table



4: Valence Electrons and Bonding



5: Basics of Nuclear Science



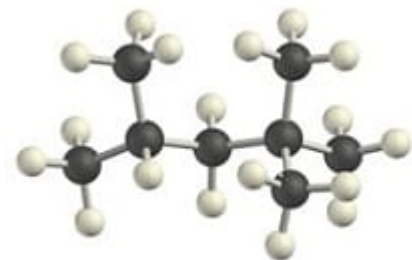
6: Nuclear Weapons- Fission and Fusion



7: Nuclear Energy



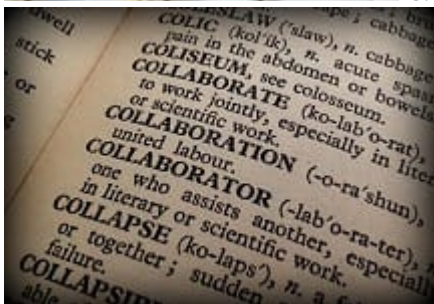
8: Water Chemistry



9: Organic Chemistry



10: Pharmaceuticals



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