

Unit 3: Acids and Bases

This unit activity will help you meet these chemistry goals:

- 1. **Science Inquiry.**—This unit explores the nature of acids, bases, acids and bases reacting, including their properties and behavior, and collecting information that can be used to determine their properties.
- 2. **Chemical Reactions.**—This unit explores relationships between acids and bases.

Introduction

Acids and bases are common in our daily lives. Acids are found in many foods, such as lemons, oranges, and vinegar. Bases are found in many household products, such as soap, bleach, and ammonia. Acids and bases are also important in many industrial processes, such as the production of fertilizers, plastics, and pharmaceuticals. In this unit, you will learn about the properties of acids and bases, how they react, and how they are used in everyday life.

- Is the compound an acid or a base?
- Is the compound strong or weak?

In this activity, you will explore the relationship between acids and bases and how they react. You will learn about the properties of acids and bases, how they react, and how they are used in everyday life. You will also learn about the importance of acids and bases in many industrial processes, such as the production of fertilizers, plastics, and pharmaceuticals. You will also learn about the importance of acids and bases in many biological processes, such as the digestion of food and the regulation of pH in the body.

Objectives and Activities

Task 1: Acids and Bases in Real-World Applications

Many common household items are acids or bases. In this activity, you will explore the properties of acids and bases, how they react, and how they are used in everyday life. You will also learn about the importance of acids and bases in many industrial processes, such as the production of fertilizers, plastics, and pharmaceuticals.

- 1. For this activity, you will explore the relationship between acids and bases and how they react. You will learn about the properties of acids and bases, how they react, and how they are used in everyday life. You will also learn about the importance of acids and bases in many industrial processes, such as the production of fertilizers, plastics, and pharmaceuticals.

Key Concepts and Equations:

Acid: H^+ ion donor
Base: OH^- ion acceptor
Acid-Base Reaction: $\text{H}^+ + \text{OH}^- \rightarrow \text{H}_2\text{O}$
pH: $\text{pH} = -\log[\text{H}^+]$

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DP Hallahan



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Project physics. Unit 5 : Text and handbook. Models of the atom ,1975 *Resources in Education* ,1982

Bulletin Stanford University,1929 *The Earth, Humanity and God* Colin A. Russell,2019-10-16 Originally published in 1994 The Earth Humanity and God discusses the relationship between science and religion The book discusses the condition of the earth as it was at the time of publication and the future prospects of the planet arguing that neither the conventional mechanistic view nor New Age philosophy helps alone in evaluating our relationship with the Earth The book examines methods of combatting the threats to the Earth exploring both a scientific and non scientific stance investigating the uncontrolled expansion of technology as well as empirical pre scientific mysticism The book also explores the resurgence in ancient ideas of Mother Earth as a dangerous piece of romantic irrationality and suggests that these views pose a danger to religious scientific examinations The book suggests instead a hard headed attempt to relate Biblical and scientific data and that this in turn can yield a valuable new understanding of the problems facing the world *University of Chattanooga Bulletin* University of Chattanooga,1915 *A dictionary of chemistry and the allied branches of other sciences* Henry Watts (F.C.S.),1879 **A dictionary of chemistry. (Second, Third suppl.).** Henry Watts,1872 *Catalogs of Courses* University of California, Berkeley,1978 Includes general and summer catalogs issued between 1878 1879 and 1995 1997

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