

UNIT (6) ACIDS AND BASES

6.1 | Arrhenius Definition of Acids and Bases

Definitions for acids and bases were proposed by the Swedish chemist *Savante Arrhenius* in 1884.

Acids were defined as compounds that contain hydrogen and can dissolve in water to release hydrogen ions into solution. For example, HCl dissolves in water as follows:



Bases are defined as substances that dissolve in water to release hydroxide ions (OH^-) into solution. For example, a typical base according to the Arrhenius definition is sodium hydroxide, NaOH:



The process that converts a molecule such as HCl into ions is called ionization.

Ionization is the production of ions from molecular compounds. No ions were initially present.

The process of converting a solid ionic compound, such as NaOH, into ions in solution is called dissociation.

Dissociation is the production of ions from ionic compounds. Ions were initially present, water just breaks apart ions.

Some common acidic and basic substances:

Acidic	Basic
citrus fruits	soap
vinegar	detergents
aspirin	milk of magnesia

Some characteristic properties associated with acids and bases:

Acids	Bases
sour taste	bitter taste
change litmus paper to red	change litmus paper to blue
react with hydroxide bases to produce salt	slippery, soapy feeling

Harcourtschoolsupply Answers Unit 4

Patrick Vollmar



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Adopting the Melody of Phrase: An Psychological Symphony within **Harcourtschoolsupply Answers Unit 4**

In a global consumed by monitors and the ceaseless chatter of immediate communication, the melodic beauty and mental symphony produced by the published word usually fade into the backdrop, eclipsed by the persistent sound and disturbances that permeate our lives. However, situated within the pages of **Harcourtschoolsupply Answers Unit 4** a wonderful fictional prize brimming with fresh thoughts, lies an immersive symphony waiting to be embraced. Constructed by an elegant composer of language, this captivating masterpiece conducts visitors on a mental trip, skillfully unraveling the concealed melodies and profound influence resonating within each cautiously crafted phrase. Within the depths of the moving examination, we can explore the book is key harmonies, analyze their enthralling publishing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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