

Ocean Water Chemistry

Key Concepts

- How salty is ocean water?
- How do the temperature and gas content of ocean water vary?
- How do conditions in the ocean change with depth?

Ocean water contains dissolved salts.

The salt that is most common in ocean water is sodium chloride, also known as table salt.

Ocean water also contains smaller amounts of magnesium, calcium, potassium, and several other substances.

The total amount of dissolved salts in a sample of water is the salinity of that sample.

On average, one kilogram of ocean water contains about 35 grams of salts—that is, 35 parts per thousand.

Salinity is lower near the surface, where precipitation and melting ice add fresh water to the ocean.

It is also lower near the mouths of large rivers that empty large amounts of fresh water into the ocean.

Salinity is higher where evaporation is high, such as in hot, dry climates.

It is also higher near the poles, where surface water freezes into ice and leaves the salt behind.

The dissolved salts in ocean water give it different properties from those of fresh water.

- Ocean water is more dense than fresh water.
- Because of its greater density, ocean water has more buoyancy than fresh water.
(This means that it lifts, or buoys up, less dense objects floating in it.)

Like temperatures on land, temperatures at the surface of the ocean vary with location and the seasons. Gases in ocean water vary as well.

Two gases found in ocean water that are necessary for living things are oxygen and carbon dioxide.

- The surface of the ocean absorbs energy from the sun and heats up.
Because warm water is less dense than cold water, the warm water stays on the surface.
- Surface water is warmest near the equator and becomes colder as you travel away from the equator. Since cold water can hold more dissolved oxygen than warm water, there is more oxygen in polar waters than in tropical waters.

If you could travel from the surface of the ocean to the ocean floor, you would pass through a vertical section of the ocean called the water column.

Conditions change greatly as you travel down through the water column.

Temperature decreases as you descend through the ocean.

Pressure increases continuously with depth in the ocean.

Pearson Education Ocean Water Chemistry Answer Key

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Table of Contents Pearson Education Ocean Water Chemistry Answer Key

1. Understanding the eBook Pearson Education Ocean Water Chemistry Answer Key
 - The Rise of Digital Reading Pearson Education Ocean Water Chemistry Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Pearson Education Ocean Water Chemistry Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Pearson Education Ocean Water Chemistry Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pearson Education Ocean Water Chemistry Answer Key
 - Personalized Recommendations
 - Pearson Education Ocean Water Chemistry Answer Key User Reviews and Ratings
 - Pearson Education Ocean Water Chemistry Answer Key and Bestseller Lists
5. Accessing Pearson Education Ocean Water Chemistry Answer Key Free and Paid eBooks
 - Pearson Education Ocean Water Chemistry Answer Key Public Domain eBooks
 - Pearson Education Ocean Water Chemistry Answer Key eBook Subscription Services
 - Pearson Education Ocean Water Chemistry Answer Key Budget-Friendly Options

6. Navigating Pearson Education Ocean Water Chemistry Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Pearson Education Ocean Water Chemistry Answer Key Compatibility with Devices
 - Pearson Education Ocean Water Chemistry Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pearson Education Ocean Water Chemistry Answer Key
 - Highlighting and Note-Taking Pearson Education Ocean Water Chemistry Answer Key
 - Interactive Elements Pearson Education Ocean Water Chemistry Answer Key
8. Staying Engaged with Pearson Education Ocean Water Chemistry Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pearson Education Ocean Water Chemistry Answer Key
9. Balancing eBooks and Physical Books Pearson Education Ocean Water Chemistry Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pearson Education Ocean Water Chemistry Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Pearson Education Ocean Water Chemistry Answer Key
 - Setting Reading Goals Pearson Education Ocean Water Chemistry Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Pearson Education Ocean Water Chemistry Answer Key
 - Fact-Checking eBook Content of Pearson Education Ocean Water Chemistry Answer Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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