

Reinforcement Worksheet – Properties of Water

KEY CONCEPT: Water's unique properties allow life to exist on Earth.

The structure of the water molecule gives water unique properties. Water is a polar molecule, which means that it has a region with a slight negative charge (the oxygen atom), and a region with a slight positive charge (the hydrogen atoms). The oppositely charged regions of water molecules interact to form hydrogen bonds. A hydrogen bond is an attraction between a slightly positive hydrogen atom and a slightly negative atom. Hydrogen bonds are responsible for several important properties of water.

- **High specific heat:** Water resists changes in temperature; it must absorb a large amount of heat energy to increase in temperature.
- **Cohesion:** The attraction among molecules of a substance is called cohesion. Cohesion due to hydrogen bonds makes water molecules "stick" together.
- **Adhesion:** The attraction among molecules of different substances is called adhesion. Water molecules "stick" to many other materials because of hydrogen bonds.

Many compounds that are important for life dissolve in water. Water is the largest component of cells' interiors, and chemical reactions in the cell take place in this water. When one substance dissolves in another, a solution is formed. The substance present in the greatest amount is called the solvent. Substances that are present in lower amounts and dissolve in the solvent are called solutes. Polar solvents, such as water, dissolve polar molecules and ions.

When some substances dissolve in water they break up into ions. A compound that releases a hydrogen ion (a proton) when it dissolves in water is an acid. Bases are compounds that remove, or accept, hydrogen ions. A solution's acidity, or its hydrogen ion concentration, is measured on the pH scale. An acid has a low pH (pH below 7) and a high hydrogen ion concentration. A base has a high pH (pH above 7) and a low hydrogen ion concentration. Organisms must maintain a stable pH. Even a small change in pH can disrupt many biological processes.

1. Explain why water is a polar molecule?

2. How do hydrogen bonds form?

3. What are the two parts of a solution?

4. What types of molecules dissolve easily in water? What types do not dissolve easily in water?

5. What does pH mean?

Reinforcement Worksheet Properties Of Water

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Reinforcement Worksheet Properties Of Water:

Monthly Catalog of United States Government Publications United States. Superintendent of Documents, 1955 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index Astronomy Alton Biggs, 2002 **Basic Building and Construction Skills** Edward Hawkins, 2016-01-01 The fifth edition of Basic Building and Construction Skills is updated to support the new training package requirements It is written for apprentices completing Certificate I II III in Carpentry and the Certificate I II III in Carpentry and Joinery qualifications Now in full colour this new edition covers 8 core units of competency It has been fully updated to reflect present day building practices standards and legislation With a greater focus on sustainability Basic Building and Construction Skills 5e combines standard industry practice with the newest industry technology tools and benchmarks With updated end of section worksheets new content images and photos as well as a robust instructor support package Basic Building and Construction Skills 5e is an extremely useful resource for providing learners with the underpinning knowledge skills and awareness necessary for a successful career in building and carpentry Basic Building and Construction Skills 5e covers CPCCCA2011A Handle carpentry materials CPCCCA2002B Use carpentry tools and equipment CPCCCM1012A Work effectively and sustainably in the construction industry CPCCCM1013A Plan and organise work CPCCCM1014A Conduct workplace communication CPCCCM1015A Carry out measurements and calculations CPCCCM2001A Read and interpret plans and specifications CPCCOHS2001A Apply OHS Requirements Policies and Procedures in the Construction Industry CPCCOHS1001A Work Safely in the Construction Industry *Te HS&T a* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004-02 **Index of Specifications and Standards**, 2003 *Teaching Children Basic Skills* Thomas M. Stephens, A. Carol Hartman, Virginia H. Lucas, 1982 **A Delta Science Module** Elizabeth L. Hammerman, 1989 Glencoe Earth Science Ralph M. Feather, 1999 Earth science is the study of Earth and space It is the study of such things as the transfer of energy in Earth's atmosphere the evolution of landforms patterns of change that cause weather the scale and structure of stars and the interactions that occur among the water atmosphere and land Earth science in this book is divided into four specific areas of study geology meteorology astronomy and oceanography p 8 9 Holt Science and Technology Holt Rinehart & Winston, 2004-02 **Earth Science**, 2001

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In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Reinforcement Worksheet Properties Of Water**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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