

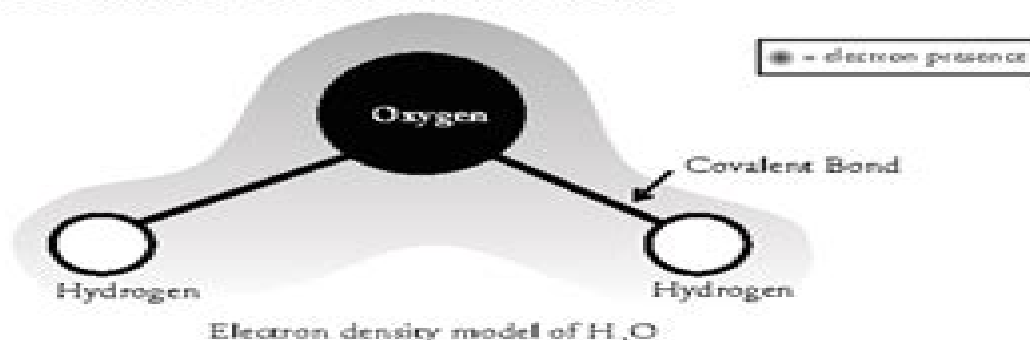
# Properties of Water

What Makes Water So Special?

## Why?

When you hear that NASA's space probes are looking for "evidence of life" on other planets, do you know what that means? They are looking for evidence of liquid water. Water is fundamental for all life; without it every living thing would die. Water covers about 70% of Earth's surface and it makes up 65–75% of our bodies (82% of our blood is water). Even if water might seem boring to you—no color, taste, or smell—it has amazing properties that make it necessary for supporting life.

## Model 1 – The Molecular Structure of Water



1. How many hydrogen atoms are in a molecule of water?

There is 2 hydrogen atoms

2. How many oxygen atoms are in a molecule of water?

There is one atom of oxygen

3. What holds the hydrogen atoms to the oxygen atom?

Covalent Bonds

4. The shading around the molecule represents the relative density of electrons shared by the atoms. What does this indicate about the density of electrons around the oxygen atom as compared to the density of electrons around the hydrogen atoms?

a higher density of electrons around the oxygen atom  
compared to the hydrogen atoms.



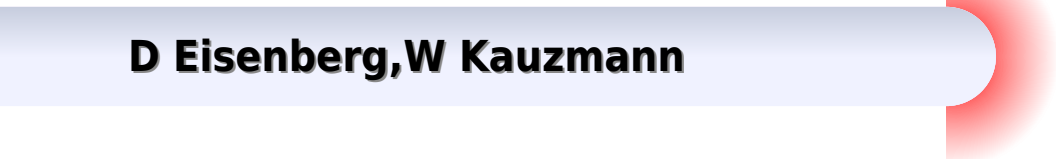
5. Where is the majority of negative charge on the water molecule?

majority of the negative charge is in the oxygen atom



# Answers For Pogil Biology Properties Of Water

**D Eisenberg, W Kauzmann**



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systems It is addressed to both students and researchers in chemistry physics and biology      The Structure and Properties of Water D Eisenberg, W Kauzmann, 2005-10-20 The authors have correlated many experimental observations and theoretical discussions from the scientific literature on water Topics covered include the water molecule and forces between water molecules the thermodynamic properties of steam the structures of the ices the thermodynamic electrical spectroscopic and transport properties of the ices and of liquid water hydrogen bonding in ice and water and models for liquid water The main emphasis of the book is on relating the properties of ice and water to their structures Some background material in physical chemistry has been included in order to ensure that the material is accessible to readers in fields such as biology biochemistry and geology as well as to chemists and physicists      *Water in Biology, Chemistry, and Physics* G. Wilse Robinson, 1996 The central theme which threads through the entire book concerns computational modeling methods for water Modeling results for pure liquid water water near ions water at interfaces water in biological microsystems and water under other types of perturbations such as laser fields are described Connections are made throughout the book with statistical mechanical theoretical methods on the one hand and with experimental data on the other The book is expected to be useful not only for theorists and computer analysts interested in the physical chemical biological and geophysical aspects of water but also for experimentalists in these fields      Physical and Chemical Properties of Water Donald T. Hawkins, 1976-04 Water is basic to terrestrial life and its distribution has controlled the growth and spread of human civilization The importance of water to modern industrial processes urban planning and agricultural development is hard to overestimate With these compelling motivations it is natural that more technical and scientific study should have been devoted to this one substance than to any other Research on water and its solutions has exhibited a marked expansion during the last decade In significant degree this has resulted from the availability of new experimental tools and techniques and of dramatic advances in computing science This combination in skilled hands promises eventually to explain the unusual properties of water and aqueous solutions in unequivocal molecular terms like wise one now has reasonable hope that the active role that water plays in biochemical processes will be revealed and explained quantitatively at the molecular level Owing to the widespread scholarly interest in aqueous science it is clear that guides to the overwhelming literature on the subject are valuable They serve ideally to indicate what is known and what is not which areas harbor controversies and what types of research attacks seem most fruitful in answering more questions than they raise Whatever time and resources need to be spent in preparing comprehensive bibliographies should be quickly offset in the total scientific community by the efficiencies generated      *Drinking Water* Vladyslav V. Goncharuk, 2014-07-12 This book takes a broad and eclectic view of the water that all humanity depends upon probing its role in human life and in the history of our planet as well as surveying the latest scientific understanding of purification techniques and standards for the protection of water quality The volume opens with a chapter on the role of drinking water in human life which discusses the planet's water resources the quality of

drinking water water and health the advent of water quality standards Green chemistry and more The chapter concludes by discussing the relationship of the biosphere and human civilization Chapter Two explores the unique properties of water the role of water in the scenario of development on Earth Also covered is the current understanding of the importance of the isotopic composition of water in particular the ratio of protium to deuterium which is fundamental to life The third chapter is devoted to Water Clusters examining the structure properties and formation of clusters Also covered here is theoretical research on the interaction of water clusters with ozone the impact of temperature on water clusters and more Chapter Four is devoted to drinking water and factors affecting its quality Discussion includes ecological and hygienic classification of centralized drinking water supply sources water quality requirements and problems and potentialities of drinking water preparation The author introduces a new concept for supplying the population with high quality drinking water The fifth chapter examines the peculiarities and problems of water decontamination with sections on chlorination ozonation the bactericidal effects of ultrasound and ultraviolet rays and more Chapter Six offers a thorough exploration of the theory means and methods of bio testing as an evaluation method for the quality of drinking water The final chapter discusses new state standards for drinking water as well as requirements and methods of quality control The concluding selection relates the urgent need to measure evaluate and protect the quality of drinking water and describes a new state standard of drinking water quality

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