

Unit 1 study guide

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| Class | Unit 1: Chemistry of Life |
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Topic 3.1 : Structure of Water and Hydrogen Bonding

1. Structure & Polarity

- 2 elements : Oxygen and Hydrogen (1:2 ratio)
- Oxygen is more electronegative than hydrogen, resulting in an unequal sharing of electrons between oxygen and hydrogen. This is called Polarity, where there are differences in atoms electronegativity, a water molecule has polarity.
- The bond is a covalent bond between the two elements (they share electrons)
- The bond between other water molecules are hydrogen bonds (a weak bond between the negative and positive regions of two separate molecules).



2. Properties of water

LIVING THINGS DEPEND ON WATER'S PROPERTIES

- When two of the same molecules form hydrogen bonds with each other this is called cohesion (water and water).
- When two different molecules form hydrogen bonds with each other this is called adhesion (amino acid and water).

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Student Solutions Manual and Study Guide to Accompany Physics for Scientists and Engineers John R. Gordon,Raymond A. Serway,2004 Written by John R Gordon Ralph McGrew and Raymond Serway the two volume manual features detailed solutions to 20 percent of the end of chapter problems from the text This manual also features a list of important equations concepts and answers to selected end of chapter questions *Physics* Graham Booth, David Brodie,2008-07 Divided into seven manageable day sections this timed revision programme covers essential GCSE topics in double page spreads These spreads indicate how much time should be spent on each section and combine clear and concise explanations flow charts spidergrams and illustrations with progress check questions and answers *Physics for Scientists and Engineers* Richard Wolfson,Jay M. Pasachoff,1999 This book emphasizes the conceptual unity of physics while providing a solid approach to help students build problem solving skills Scientifically sound yet lauded by reviewers for clarity and accessibility Physics for Scientists and Engineers Third Edition provides pedagogical support in recognition of the trouble spots often faced by students An abundance of interesting and diverse end of chapter problems motivate and intrigue students Other aids include references within examples to related problems found at the ends of chapters Strategy boxes extended summaries paired problems and cumulative problems to integrate concepts across several chapters This new edition is correlated with the most comprehensive physics simulation package available ActivPhysics tm 1 2 *Books and Pamphlets, Including Serials and Contributions to Periodicals* Library of Congress. Copyright Office,1976-07 **British Books in Print** ,1979 **Review Notes and Study Guide to the Major Novels of Dostoyevsky** Frederic Tuten,1964

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