

# 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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