

Chap 3: Water

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What are polar molecules?

What are polar covalent bonds?

Know how polar covalent bonds help water be the universal solvent.

What are the four emergent properties of water?

Know the difference between cohesion and adhesion.

How does water's high specific heat help regulate temperature (on organismal and ecological scale)?

Why does ice float on liquid water?

What is the difference between hydrophobic and hydrophilic?

Know: solvent, solute and solution.

What is the difference between acids and bases? (what concentration is tracked?)

Be able to calculate concentration from pH and vice versa.

What is a buffer? How does it work?

How does acidification of the environment change things?