

Chemistry of Life

Section: Matter and Substances

ATOMS

Key Idea: All matter is made up of _____. An _____
has a positively charged _____ surrounded by _____

An atom is _____

An element is _____

Additional notes about Atomic Structure: _____

Additional notes about Elements: _____

Reading Check: What is a proton? _____

CHEMICAL BONDS

Key Idea: Chemical bonds form between groups of _____
because _____ become stable when they have _____
_____ in a valence shell.

Additional notes about Covalent Bonding: _____

Additional notes about Ionic Bonding: _____

Reading Check: What is a chemical bond? _____

POLARITY

Key Idea: Hydrogen bonding plays an important role in _____

Additional notes about Solubility: _____

Additional notes about Hydrogen Bonds: _____

Reading Check: Why does salt dissolve in water? _____

Make a comparison table that compares covalent bonding and ionic bonding.

	Covalent bonding	Ionic bonding

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Section: Water and Solutions

PROPERTIES OF WATER

Key Idea: Most of the unique properties of _____ result

because _____

Cohesion is _____

Adhesion is _____

Additional notes about Properties of Water: _____

SOLUTIONS

Key Idea: In solutions, some substances change the balance of _____

A solution is a _____

An acid is _____

A base is _____

pH is _____

A buffer is _____



Additional notes about Acids and Bases: _____

Additional notes about pH and Buffers: _____

Write a sentence that uses the everyday meaning of the word *basic*. _____

Write a sentence that uses the scientific meaning of the word *basic*. _____

