

Chp
2.

1. What elements are common in all living organisms?
four main elements carbon, hydrogen, nitrogen, and oxygen.

2. Why is water so important in life?
All organisms are 70-90% water; it is a solvent, adhesion and cohesive, high surface tension, high heat capacity, and less dense than ice.

3. What is the difference in Acids and bases?
Acids have a high hydrogen ion concentration while bases have a low H^+ concentration and release OH^- .

2.1

4. How does arrangement of electrons affect reactivity?
an element is most stable when outer ring is complete.

5. How are isotopes useful?
helps w/ medical treatments

6.	ionic bonds	✓	covalent bonds
	two atoms held together by attraction of opposite charges		two atoms share an electron in order to have a completed outer shell.

2.2 ⇒

7. Hydrogen bonds
Attraction of positive hydrogen atoms to negative oxygen atoms. Weak bonds but the large number of bonds make it a strong attractive force.

2.3 \Rightarrow 1. Purpose of buffer:
chemical/s that keep pH within established limitations