

Biology 155 – Quiz 2

- Two isotopes of the same element differ in their number of
 - protons
 - neutrons
 - electrons
 - orbitals
- Potassium is element number 19. It tends to ionize. How many electrons does **potassium ion** (K^+) have in its outermost orbital?
 - 1
 - 2
 - 8
 - 10
 - 18
- Which statement about water is NOT correct?
 - Water is a good conductor of heat
 - The oxygen atom has a slight negative charge
 - Water is a good solvent for nonpolar molecules.
 - Water forms hydrogen bonds.

- If the concentration of H^+ ions in water is 0.000010 g/l, the pH is
 - basic
 - 4
 - 5
 - 6
- When CO_2 is dissolved in water the following reactions happen:



At equilibrium each of the chemicals in the equation are present in solution. If a small amount of a base (like NaOH) is added to this solution the pH will increase but not significantly. In addition:

- the amount of H_2CO_3 will increase
- the amount of HCO_3^- will increase
- the amount of CO_2 will increase
- the amount of H^+ will increase