Day 1 - Questions

1) What is the smallest basic unit of matter?

2) What are three subatomic particles?

3) What is the term for a substance that is composed of atoms of different elements bonded together? Name one example.

4) What type of bond forms between differently charged ions?

5) What type of bond forms when atoms share electrons?
Day 2 - Questions

1) What is the difference between a polar and a nonpolar molecule?

2) What is a solution? What is a solvent? What is a solute?

3) What will usually happen if you mix a polar and a nonpolar substance?

4) Which half of the pH scale generally releases hydrogen ions when dissolved in water?

5) What is the pH of a neutral substance? Give an example of one.
6) What is the relationship between a monomer and polymer?

7) Explain how both nucleic acids and proteins are polymers. What monomers are they composed of?

8) How are carbohydrates and lipids similar? How are they different?

9) Explain how the bonding properties of carbon atoms result in the large variety of carbon-based molecules in living things.

10) Why might fatty acids, amino acids, and nucleic acids increase the hydrogen concentration in a solution? Explain your answer.