

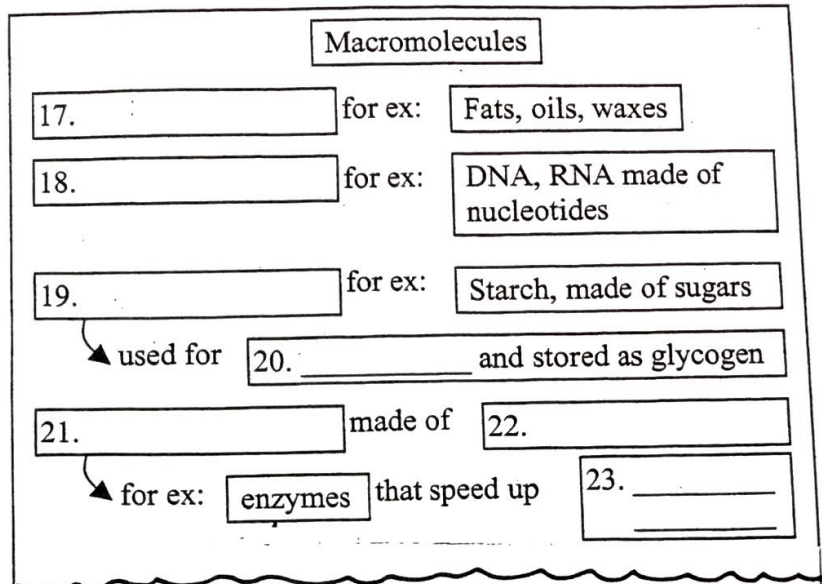
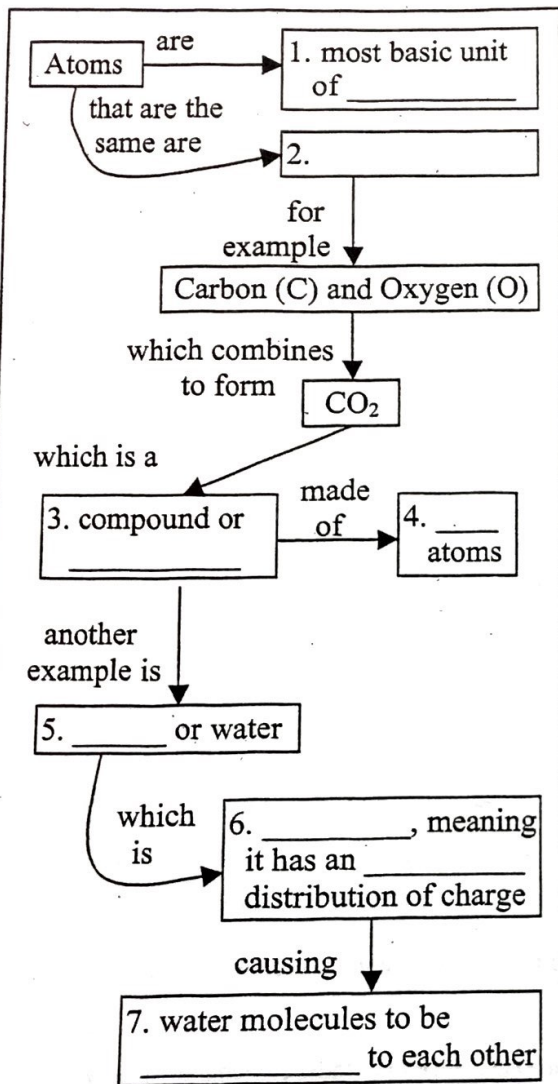
Name: _____

Date: _____

Period: _____

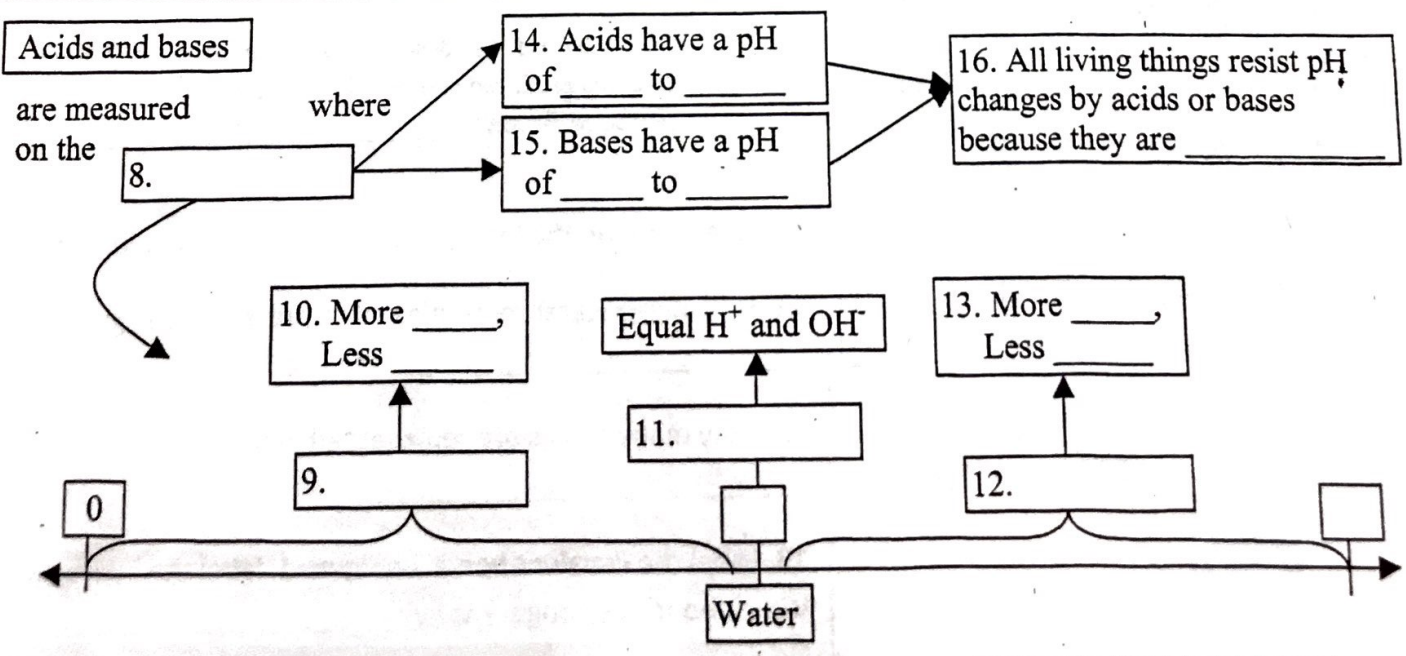
Unit 3a Concept Map

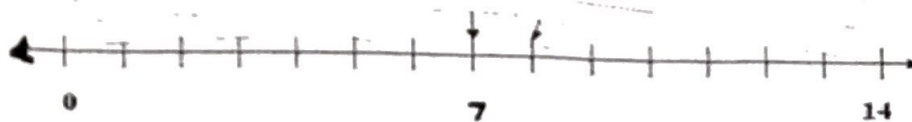
Week # _____



Category	0 drops	5 drops	10 drops	15 drops
Solution A	7.0	6.1	5.2	3.6
Solution B	6.4	6.3	6.2	6.0
Solution C	6.7	5.8	4.6	4.0

What solution is the buffer? _____
 What type of solution is added to each? _____
 A _____
 B _____
 C _____

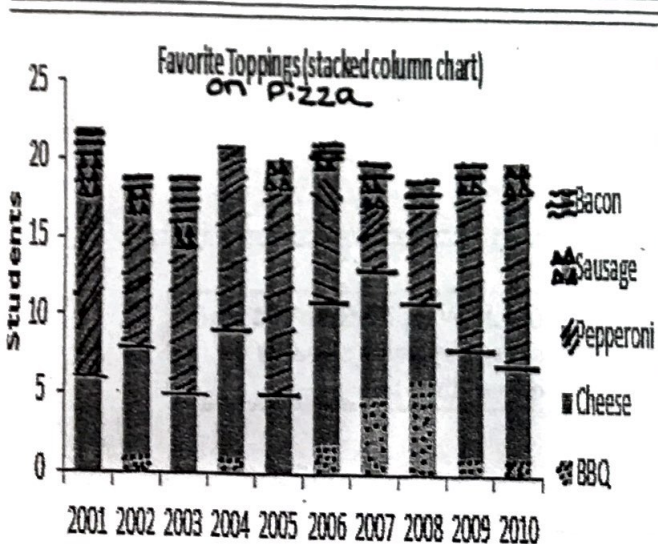




1. A solution that is 1,000 times more acidic than a pure water, what is the pH of the solution? _____
2. A pH of 6 is how many times more acidic than a pH of 12? _____
3. If baking soda has a pH of 9. Bleach is 10,000 more basic than baking soda. What is Baking soda's pH? _____
4. Milk has a pH of 6. Orange Juice is 100 more acidic than milk. What is the pH of Orange Juice? _____
5. Fill in the table below

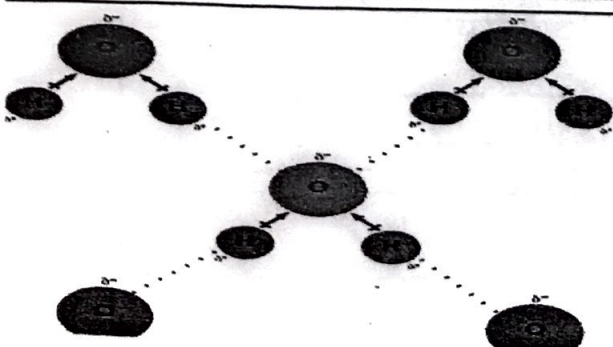
Compound	# atoms	#elements
$C_6H_8O_6$ (Vitamin C)		
NaOH (Sodium Hydroxide)		
H_2SO_4 (Sulfuric Acid)		
$C_9H_8O_4$ (aspirin)		

6. What macromolecule store energy for later use? _____
7. What macromolecule provides most of your cell's energy? _____
8. One of waters unique characteristics is that it is polar. Why is it a polar molecule? _____
9. Write out the chemical formula for glucose. Explain how the body uses glucose molecules? _____



10. Use the graph below to answer the following questions
 - a. In what years was bacon not a preferred student topping? _____
 - b. Which year experienced the most students wanting BBQ on pizza? _____
 - c. What date/year can describe : 5 Students preferred cheese , 9 students preferred pepperoni, 2 students preferred sausage, 3 preferred Bacon? _____

Use the figure on the left to answer the following questions.



11. How many water molecules are represented in figure 1? _____

12. How many atoms are represented in figure 1? _____

13. Label the covalent bonds on figure 1, label the hydrogen bonds. Which bond is stronger? Why? _____