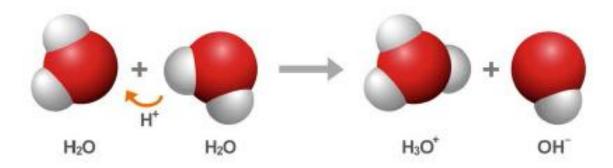
Name	e Page Page	_
	pH and Color Change - Notes Sheet	
Key C	Concepts:	
*	❖ Whether a solution is acidic or basic can be measured on the	·
*	When universal indicator is added to a solution, the color change can indicate the	ıe
	of the solution.	
*	cause universal indicator solution to change from	
	toward	
*	cause universal indicator to change from	
	toward	
*	❖ Water molecules (H₂O) can interact with one another to form	
	ions andions.	
*	* At a pH of, there are	_ of ions
	and ions in water, and this is called a	
	solution.	
*	solutions have a pH 7 on the	pH scale

solutions have a pH \_\_\_\_\_\_ 7 on the pH scale.

## pH and Color Change.....Processing

## EXPLAIN IT WITH ATOMS & MOLECULES

The chemical formula for water is  $H_2O$ . Sometimes two water molecules can bump into each other and form the ions  $H_3O^+$  and  $OH^-$ .



What is happening in the chemical equation above?

Why is one ion positive and the other ion negative?

The pH scale is a measure of the concentration of  $H_3O^+$  ions in a solution. Use the words *increases, decreases*, or *stays the same* to describe how the concentration of  $H_3O^+$  ions changes as different substances are added to water.

How does the concentration of H <sub>3</sub> O+ ions change as each substance is added to water?			
Type of substance	Concentration of H <sub>3</sub> O <sup>+</sup> ions		
Acid			
Base			
Neutral			