BrainPOP- pH Scale

Name_____

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1. The term refers to the chemical potential of hydrogen.	Word Bank:
2. The pH measures how or basic a substance on a scale of 1 to 14.	Acidic Acids Atoms
measure from 1 to 7, while the or alkaline side measures from 7 to 14.	Bases Blood
3. Identify each as an acid (A) or a base (B). Lemon juice Battery acid Hydrochloric acid	Blue Buffers
ToothpasteVinegarBaking sodaFloor cleaner	Carbon dioxide
4. Really strong acids and bases are found at the of the scale, while those near the are weaker. Right in the middle at exactly 7, or pH, you have pure water.	Center Dissolve Electrons Ends Environment Gained
\mathbf{f} A side contains into (\mathbf{II}^{\pm}) such the base contains	Hydrogen
5. Acids contain ions (H ⁺), while bases contain (OH ⁻) ions. Ions are atoms that have either lost or gained In bases you find hydroxyl ions, which have electrons. Hydrogen ions found in acids are that have had an electron knocked off, which is why these ions are always trying to get the lost electrons back. When you put a metal in acid, the metal starts to 	Hydroxyl Indicator Neutral Neutralize pH Red Salts Scale Shares
6. Bases have the power to acids. The hydroxyl ion its	Stomach acid
electron with the hydrogen ion. The H ⁺ from the hydrogen ion and the OH ⁻ from the hydroxyl ion bond together to form H ₂ O, which is with pH neutral.	Strong Water Weak
Different types of are formed depending on the types of acids and bases involved in the reaction.	
 7. When Moby poured the baking soda (a base) into the vinegar (an acid), a reaction occurred. Salt, water, and were produced by the reaction. 	
8 are substances that can block changes in their pH for period of time. You	a can find them on
buffered aspirin, which keeps your from dissolving the medicine too quickly. Buffers are made by combining acids and bases. Buffers also are found in our body to keep our the pH of our at or around 7.4.	
9. Most science labs have pH paper, which is paper that has been soaked in a special chemical They turn in an acid and in a base. By comparing the color of the pH paper to a chart, you can determine how an acid or base is.	
10. Constant reactions between acids and bases keep our from or too alkaline.	