

The National Orthodox School /Shmaisani

Subject: Chemistry

Name: Answer Key

Topic: Acids and alkalis

Date:

Grade-Section: 6CS- all sections

<p>Acid strength</p> <p>Acids have a pH below 7. The more H⁺ ions, the more acidic it is and the lower the pH will be.</p>	<p>What ions do acids and bases produce when dissolved in water?</p> <p>Acids: H⁺ Bases: OH⁻</p>	<p>Label the Acid and Base.</p> <p>NaOH Base HCl Acid H₂SO₄ Acid HNO₃ Acid Ca(OH)₂ Base KOH Base</p>
<p>List 3 properties of bases.</p> <ul style="list-style-type: none"> - taste bitter - turn red litmus blue - Negatively charged hydroxide ions (OH⁻) 	<p>pH 7 is said to be neutral – this means there is a balance of H⁺ and OH⁻ ions.</p>	<p>What are the two types of indicators?</p> <ul style="list-style-type: none"> - universal indicator - litmus paper
<p>Label the Acid and Base.</p> <p>Hydrochloric acid Acid Sodium hydroxide Base Sulfuric acid Acid Potassium hydroxide Base Nitric acid Acid</p>	<p>Base strength</p> <p>Bases have a pH above 7. The more OH⁻ ions, the more basic it is and the higher the pH will be.</p>	<p>List 3 properties of acids.</p> <ul style="list-style-type: none"> - taste sour - turn blue litmus red - releases hydrogen ions (H⁺) when dissolved in water