| | Name: |
|--|--|
| | Date: |
| Chemical Reactions: | Block: |
| Lesson 10 – Acids and Bases | |
| Acids: A chemical that when | |
| Ht ion. Acid Chemical For | nula all Start |
| with H | |
| × HCl - Hydrochloric acid | c.= (h.) |
| HC1 + H20 -> [H+] + | ((H ₂ \(\times\)) |
| | |
| Bases: A Chemical that who OH ions (hydroxide). Base | ren dissolved products |
| Un jons (hydroxide). Base | chemical tormula |
| end in OH. NaOH-Sadium hydroxide | |
| NACH SOLIMIT TOP TO | .1+ |
| | |
| NaoH + H20 - OH)T | · Na ' |
| $N_{AOH} + H_{2O} \rightarrow OH $ | |
| Neutralization: When an acid and | d a base are mixed |
| Neutralization: When an acid and the Ht ions and OH ions | d a base are mixed combine to form |
| Neutralization: When an acid and | d a base are mixed combine to form |
| Neutralization: When an acid and the H ^t ions and OH ions Water, Water is a nuetra | d a base are mixed combine to form |
| Neutralization: When an acid and the Ht ions and OH ions | d a base are mixed combine to form |
| Neutralization: When an acid and the H ^t ions and OH ions Water, Water is a nuetra | d a base are mixed combine to form il solution. |
| Neutralization: When an acid and The H+ ions and OH ions Water, Water is a nuetra H+ + OH -> H2O OH scale: A Scale that meas of acids and base 12345 | d a base are mixed combine to form il solution. |
| Neutralization: When an acid and The H+ ions and OH ions Water, Water is a nuetra H+ + OH -> H2O OH scale: A Scale that meas of acids and base 12345 Ex. pH2 > pH3 | combine to form il solution. unos the Strength 567891011121314 |
| Heutralization: When an acid and The Ht ions and OH ions Water. Water is a nuetra Ht + OH -> H2O OH scale: A Scale that meas of acids and base 12345 Ex. pH2 > pH3 Change of X10 | combine to form il solution. unos the Strength 567891011121314 |
| Heutralization: When an acid and the Ht ions and OH ions Water. Water is a nuetra Ht + OH -> H2O OH scale: A Scale that meas of acids and base 12345 Ex. pH2 > pH3 Change of X10 | combine to form il solution. unos the Strength 5 6 7 8 9 10 11 12 13 14 c nuetral basic change Each impresse |
| Neutralization: When an acid and The H ions and OH ions Water, Water is a nuetra H + OH -> H2O OH scale: A Scale that meas of acids and base 12345 Ex. pH2 > pH3 Change of ×10 Acid is lor weaker Ex. pH5 > pH3 | combine to form il solution. und the Strength 5 6 7 8 9 10 11 12 13 14 c nuetral basic change increases/decrete concentration |
| Neutralization: When an acid and The H ions and OH ions Water. Water is a nuetra H+ + OH -> H2O OH scale: A Scale that meas of acids and base 12345 Ex. pH2 > pH3 Change of ×10 Acid is lox weaker Ex. pH5 > pH3 10×10 = 100× | combine to form il solution. und the Strength 5 6 7 8 9 10 11 12 13 14, c nuetral basic Change increases/decre |
| Heutralization: When an acid and The H ions and OH ions Water. Water is a nuetra H + OH -> H2O OH scale: A Scale that meas of acids and base 12345 Ex. pH2 > pH3 Change of ×10 Acid is lox weaker Ex. pH5 > pH3 lox 10 = 100x acid is look Stronger | combine to form il solution. und the Strength 5 6 7 8 9 10 11 12 13 14 c nuetral basic change increases/decrete concentration |
| Heutralization: When an acid and The H+ ions and OH ions Water. Water is a nuetra H+ + OH -> H2O OH scale: A Scale that meas of acids and base 12345 Ex. pH2 > pH3 Change of ×10 Acid is lox weaker Ex. pH5 > pH3 10×10 = 100× | combine to form il solution. und the Strength 5 6 7 8 9 10 11 12 13 14 c nuetral basic change increases/decrete concentration |

| pH Indicators: Substances used to safely test the pH |
|---|
| of a substand |
| Litmus Paper: A paper Strip that changes Colour depending on pH |
| Blue Paper: Changes red in an acid |
| Red Paper: Charges blue in a base |
| REDI-D'ACID BUE- BASE |
| Universal Indicator: Change to many different Colours to |
| tell you specifically what phis |
| Bromothynol Blur 1234567891011121319 |
| Ex. pH 10 Red orange/yellow green Blue Violet |
| A contract of the contract of |
| Litmus -> Blue |
| Phen - Pinkirh/purpk |
| BB-> Blue |
| |
| You Try: |
| 1) When the pH rises from 10 to 12, how many times more basic has the solution |
| become? $10 \times 10 = 100 \times Maric$ |
| 10 x 10 3 100 x 110.00 |
| 2) What calcur is litroup namer in an acidic calution? |
| 2) What colour is litmus paper in an acidic solution? |
| REO' |
| |
| |
| 3) What colour is bromthymol blue at the following pH levels? |
| a) pH 5 |
| |
| b) pH 7 |
| |
| c) pH 9 |
| |
| |

| Name: | · |
|--------|---|
| Date: | |
| Block: | |

Chemical Reactions:

Lesson 11 – Properties Acids and Bases

| Property | Acid | Base |
|--|-----------------|-------------|
| Taste | Sour | Bitter |
| Touch | Mill prive | Slippery |
| Litmus | Red | Blue |
| Reaction with some metals, such as magnesium or zinc | Corrodes metals | no reaction |
| Electrical Conductivity | conducts | Conduct |
| рН | less than 7 | more than 7 |
| Production of ions | H ⁺ | 04 |









