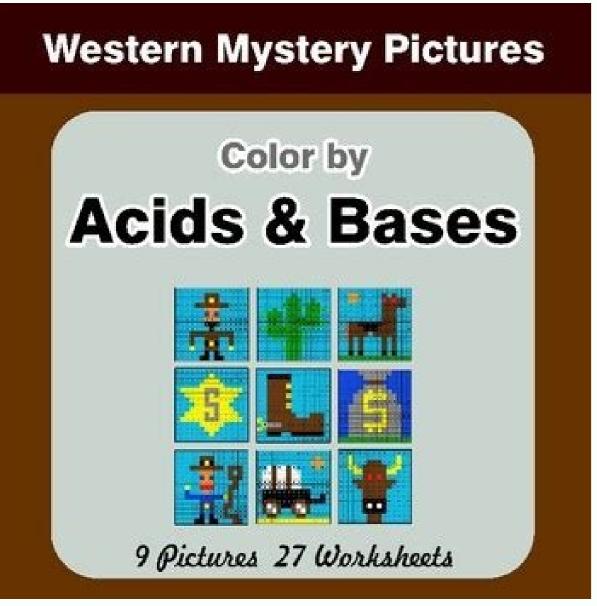
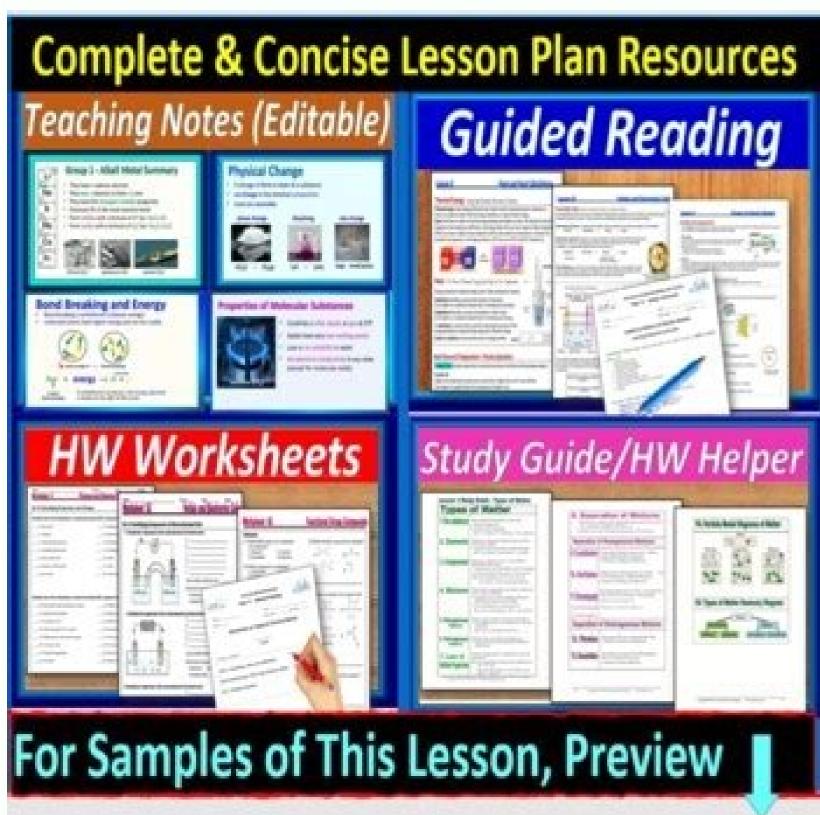
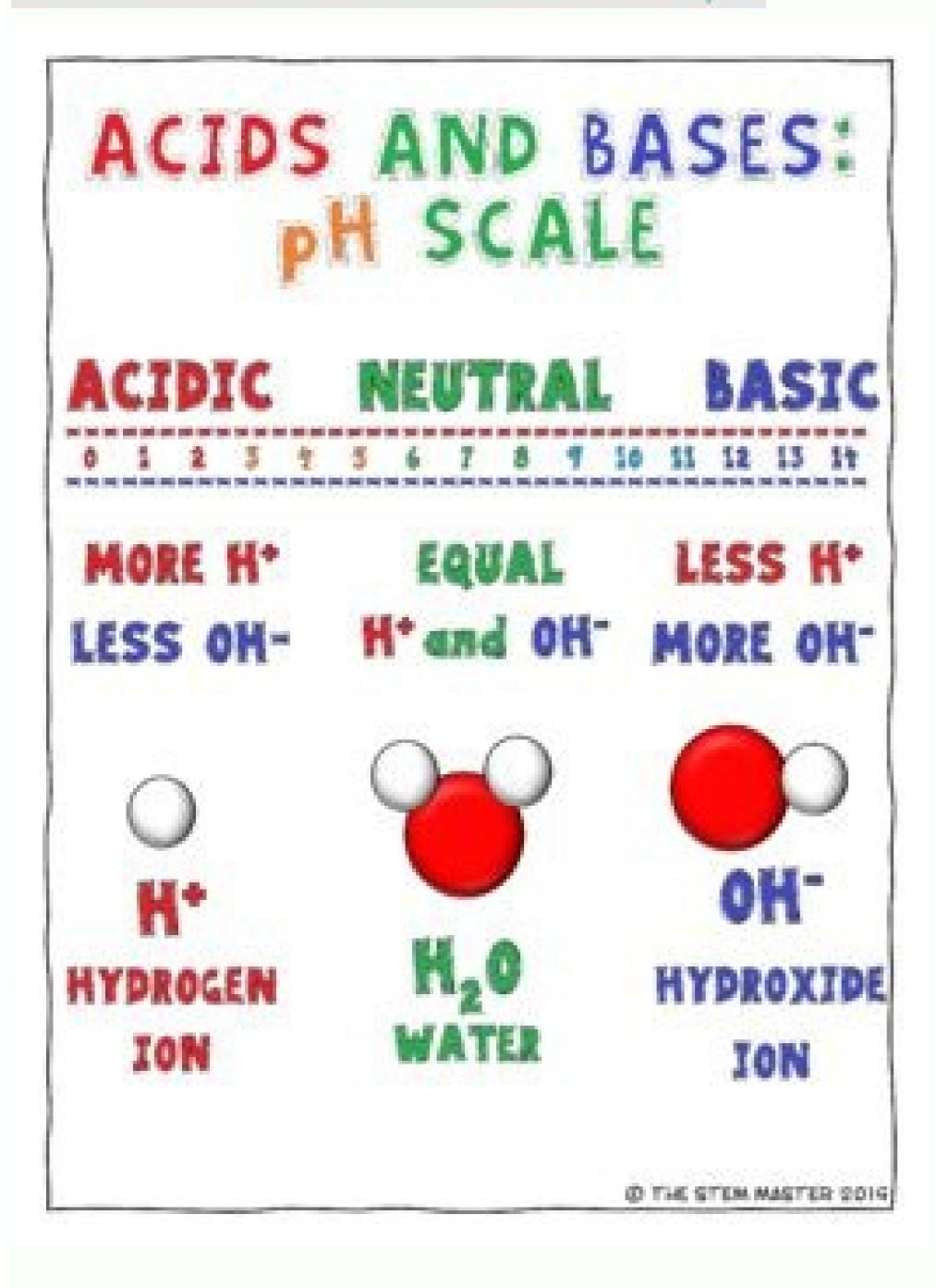
Chemistry acids and bases packet answers

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Building Block #1:

- 4. Be able to recognize acids and bases by their characteristics and formulas.
- € Identify Arrhenius and Bronsted Lowery acids and bases.

Ardenito	Broschad-Lovery.	
2. What is the definition of	a base?	

2: 1dent#	y the following as properties of acids, bixoes, or both:
	Differ
100	Sow
63	May conduct electricity
10	Slepery
	Produce's hydrogen gas when it reacts with some metals
- 1	Neutralized by an acid to produce salt and water
0	Turns blue litmus paper red
- 6	Torres and liferant release bytes

4. Fall in the hable with the opered information

Compound Formula	lons termed?	Acid, base or salt?
94.90		
Y-OH		
X/Y		

Acids and bases grade 10. Acids and alkalis grade 7. Acids bases and salts grade 7. Acid bases and salts past papers.

In chemistry and cooking, many substances dissolve in water to make it either acidic or basic/alkaline. A basic solution has a pH of less than 7. Aqueous solution swith a pH of 7 are considered to be neutral. Acid-base indicators are substances used to determine roughly where a solution falls on the pH scale. An acid-base indicator is either a weak acid or weak base that exhibits a color change as the concentration of hydrogen (H+) or hydroxide (OH-) ions changes in an agueous solution. Acid-base indicator is either a weak acid or weak base that exhibits a color change as the concentration of hydroxide (OH-) ions changes in an agueous solution. Acid-base indicator is either a weak acid or weak base that exhibits a color change as the concentration of hydroxide (OH-) ions changes in an agueous solution. Acid-base indicator is either a weak acid or weak base that exhibits a color change as the concentration of hydroxide (OH-) ions changes in an agueous solution. color-change science demonstrations. Also Known As: pH indicator Perhaps the best-known pH indicator is litmus. Thymol Blue, Phenol Red, and Methyl Orange are all common acid-base indicators. Red cabbage can also be used as an acid-base indicator. If the indicator is a weak acid, the acid and its conjugate base are different colors. If the indicator is a weak base, the base, and its conjugate acid display different colors. For a weak acid indicator with the genera formula HIn, equilibrium is reached in the solution according to the chemical equation: HIn(aq) + H2O(l) \leftrightarrow In-(aq) + H3O+(aq) HIn(aq) is the acid, which is a different color from the base In-(aq). When the pH is low, the concentration of the hydronium ion H3O+ is high and equilibrium tends toward the left, producing the color A. At high pH, the concentration of H3O+ is low, so equilibrium tends toward the right side of the equation and color B is displayed. An example of a weak acid indicator is phenolphthalein, which is colorless as a weak acid but dissociates in water to form a magenta or red-purple anion. In an acidic solution, equilibrium is to the left, so the solution is colorless (too little magenta anion to be visible), but as pH increases, the equilibrium constant for the reaction may be determined using the equation: KIn = [H3O+][In-] / [HIn] where KIn is the indicator dissociation constant. The color change occurs at the point where the concentration of the acid and anion base are equal: [HIn] = [In-] which is the point where half of the indicator is a universal indicator, which is a mixture of multiple indicators that gradually changes color over a wide pH range. The indicators are chosen so mixing a few drops with a solution will produce a color that can be associated with an approximate pH value. Several plants and household chemicals can be used as pH indicators, but in a lab setting, these are the most common chemicals used as indicators: Indicator Acid Color Base Color pH Range pKIn thymol blue (first change) red yellow 1.2 - 2.8 1.5 methyl orange red yellow blue 3.8 - 5.4 4.7 methyl red yellow blue 6.0 - 7.6 7.0 phenol red yellow red 6.8 - 8.4 7.9 thymol blue (second change) yellow blue 8.0 -9.6 8.9 phenolphthalein colorless magenta 8.2 -10.0 9.4 The "acid" and "base" colors are relative. Also, note some popular indicators are chemicals used to determine whether an aqueous solution is acidic, neutral, or alkaline. Because acidity and alkalinity relate to pH, they may also be known as pH indicators. Examples of acid-base indicators include litmus paper, phenolphthalein, and red cabbage juice. An acid-base indicator is a weak acid or weak base and its conjugate acid. The species and its conjugate have different colors. The point at which an indicator changes colors is different for each chemical. There is a pH range over which the indicator solution might be a poor choice to test another solution. Some indicators can't actually identify acids or bases, but can only tell you the approximate pH of an acid or a base. For example, methyl orange only works at an acidic pH. It would be the same color above a certain pH (acidic) and also at neutral and alkaline values. "pH and Water." U.S. Geological Survey, U.S. Department of the Interior. In chemistry, there are seven "strong" acids. What makes them "strong" is the fact that they completely dissociate into their ions (H+ and an anion) when they are mixed with water. Every other acid is a weak acid. Because there are only seven common strong acids, it is easy to commit the list to memory. A strong acid is one which completely dissociates in its solvent. Under most definitions, the acid dissociates into a positively-charged hydrogen ion (proton) and a negatively-charged anion. The seven most common strong acids are hydrochloric acid, hydrobromic acid, hydrobro only to six strong acids. That typically means the first six acids on this list: HCl: Hydrochloric acid HNO3: Nitric acid HClO4: Perchloric acid HClO4: Perchlor include triflic acid (H[CF3SO3]) and fluoroantimonic acid (H[SbF6]). As the strong acid is a strong acid is a strong acid is as follows: HA + S + SH++A-Here, S is a solvent molecule, such as water or dimethyl sulfoxide (DMSO). For example, here is the dissociation of hydrochloric acid has a pKa value less than -2. The pKa value of the acid depends on the solvent. For example, hydrochloric acid has a pKa value of about -5.9 in water and -2.0 in DMSO, while hydrobromic acid has a pKa value around -8.8 in water and about -6.8 in DMSO. Hydrochloric acid also goes by the name of muriatic acid has a pungent odor. Humans and most other animals secrete hydrochloric acid in the digestive system. The acid has many commercial applications. It is used to produce inorganic compounds, refine metals, pickle steel, and regulate pH. Of the common strong acids, it is one of the least hazardous to handle, least expensive, and easiest to store. Nitric acid also goes by the name aqua fortis. It is a highly corrosive acid. While colorless in pure form, nitric acid yellows over time as it decomposes into nitrogen oxides and water. In chemistry, one of its key uses is for nitration. This is where a nitro group gets added to a molecule (usually organic). Nitric acids finds use as an oxidant in nylon production, as the oxidizer in rocket fuel, and as an analytical reagent. Sulfuric acid: Sulf (Commonwealth spelling) is also called oil of vitriol. It is colorless, and viscous. Pure sulfuric acid does not naturally exist because it is highly corrosive and powerfully dehydrates skin upon contact, causing both acid chemical burns and thermal burns. It's primary use is in the production of fertilizers. It is also used to make detergents, dyes, resins, insecticides, paper, explosives, acetate, batteries, and drugs. Sulfuric acid is also used to make detergents, dyes, resins, insecticides, paper, explosives, acetate, batteries, and drugs. Sulfuric acid is also used in water treatment. Bell, R. P. (1973). The Proton in Chemistry (2nd ed.). Ithaca, NY: Cornell University Press. Guthrie, J.P. (1978). "Hydrolysis of esters of oxy acids: pKa values for strong acids". Can. J. Chem. 56 (17): 2342-2354. doi:10.1139/v78-385Housecroft, C. E.; Sharpe, A. G. (2004). Inorganic Chemistry (2nd ed.). Prentice-Hall . ISBN 0-13-841891-8. Petrucci, R. H.; Harwood, R. S.; Herring, F. G. (2002). General Chemistry: Principles and Modern Applications (8th ed.). Prentice Hall. ISBN 0-13-014329-4.

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