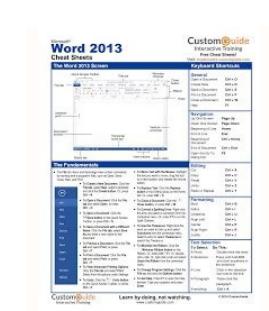


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AP Chemistry : Cheat Sheet/Chemical Equations

3.1 Acids and Bases

Key Vocabulary Terms:

- Arrhenius acid: A substance that increases the concentration of H^+ ions.
- Arrhenius base: A substance that increases the concentration of OH^- ions.
- Brønsted-Lowry acid: A proton donor.
- Brønsted-Lowry base: A proton acceptor.
- Catalysis: Facilitation of a reaction.
- Concentration: Measure of amount of solute in a solution.
- Dissociation: Separation of a compound into its component parts.
- Electrolyte: A substance that dissociates in water to produce ions.
- Enzyme: A protein that acts as a catalyst.
- Equilibrium: A state of balance between two opposite processes.
- Fractional distillation: Separation of a mixture based on the different boiling points of its components.
- Homogeneous mixture: A mixture in which all components are present in the same phase.
- Homopolar bond: A bond in which both electrons are shared by one atom.
- Heteropolar bond: A bond in which electrons are shared between two atoms.
- Hydrogen bond: An interaction between a hydrogen atom and an oxygen atom.
- Ionic bond: A bond formed by the transfer of one or more electrons between atoms.
- Ionic equilibrium: A state of equilibrium between ion concentrations.
- Ionic radius: The radius of an ion.
- Le Chatelier's principle: A statement that describes how a system at equilibrium responds to a change in conditions.
- Lewis acid: A substance that accepts a pair of electrons.
- Lewis base: A substance that donates a pair of electrons.
- Lewis structure: A diagram showing the valence electrons of each atom in a molecule.
- Molecular formula: A formula that shows the number of atoms of each element in a molecule.
- Nernst equation: An equation that relates the standard free energy of a reaction to the equilibrium constant.
- Octet rule: A rule stating that most atoms prefer to have eight valence electrons.
- Oxidation: Removal of electrons from an atom.
- Oxidizing agent: A substance that increases the oxidation state of another substance.
- Polymer: A large molecule composed of repeating units of smaller molecules.
- Potential energy: The energy of a system.
- Precipitation reaction: A reaction in which a solid product is formed.
- Redox reaction: A reaction in which oxidation and reduction occur.
- Reversible reaction: A reaction that can proceed in both directions.
- Rutherford-Bohr model: A model of the atom in which electrons move around the nucleus in orbits.
- Saturated solution: A solution in which no more solute can dissolve.
- Semiconductor: A material with electrical conductivity between that of a conductor and an insulator.
- Solubility: The ability of a substance to dissolve in a solvent.
- Solvent: A substance that dissolves another substance.
- Strong acid: An acid that dissociates completely in water.
- Strong base: A base that dissociates completely in water.
- Titration: A method of determining the concentration of a solution by titrating it with a standard solution.
- Weak acid: An acid that dissociates partially in water.
- Weak base: A base that dissociates partially in water.

Key Equations:

$$K_w = K_b \cdot K_a$$

$$K_b = \frac{[OH^-][salt]}{[salt] + [OH^-]}$$

$$K_a = \frac{[H^+][salt]}{[salt] + [H^+]}$$

Writing and Properties of Salts:

Basic Salts:

- Alkaline earth metals react with nonmetals to form basic salts.
- Alkaline earth metals react with halogens to form basic halides.
- Alkaline earth metals react with oxygen to form basic oxides.
- Alkaline earth metals react with nitrogen to form basic nitrides.

Amphoteric Salts:

- Alkaline earth metals react with acids to form amphoteric salts.
- Alkaline earth metals react with bases to form amphoteric salts.
- Alkaline earth metals react with water to form amphoteric hydroxides.

Neutral Salts:

- Alkaline earth metals react with neutral salts to form neutral salts.
- Alkaline earth metals react with sulfides to form neutral salts.

Acidic Salts:

- Alkaline earth metals react with strong acids to form acidic salts.
- Alkaline earth metals react with weak acids to form acidic salts.

Properties of Salt:

- Physical properties: Color, taste, smell, density, melting point, boiling point, solubility, and density.
- Chemical properties: Reactivity with acids, bases, and water.

Properties of Water:

- Electrolytic properties: Conductivity, ionization potential, and ionization energy.
- Thermal properties: Boiling point, melting point, freezing point, and heat capacity.
- Chemical properties: Reactivity with acids, bases, and water.

Water Properties:

- Electrolytic properties: Conductivity, ionization potential, and ionization energy.
- Thermal properties: Boiling point, melting point, freezing point, and heat capacity.
- Chemical properties: Reactivity with acids, bases, and water.

Cheatography

Chemistry Basics Cheat Sheet
by chemistman via cheatography.com/2024/cv/379/

Mass Concentration	End Concentration	Identity Formulas	How to Write a Chemical Formula
Mass: 0.00001	0.1M: 1.0	1.0M: 1.0	1. Determine the chemical formula of the solute. 2. Determine the charge of each atom. 3. Balance the chemical formula of the charges. 4. Balance masses.
mol: 0.001	0.1M: 0.1M	1.0M: 0.1M	
mol/L: 0.001	0.1M: 0.1M	1.0M: 0.1M	
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13 Bionic chip that use a new 7nm process to position them. There are also four high efficiency CPU cups that are powerful enough to use most part time but do not take a battery shot. This means that Apple can perform an additional 20% performance compared to the previous chip without compromising battery performance. Other new features in iPhone 11 and iPhone 11 Pros also include these new shared features. WiFi 6 (802.11ax) for download speeds up to 38% faster. Improved dust and water resistance. IP68 degree on iPhone 11 Pro - which is 4 meters of water for a maximum of 30 minutes. On iPhone 11, it is rated for 2 meters of water for up to 30 minutes. Gigabit-Class LTW for up to 30 LTE bands for a real world-wide Fast-charging roaming for a battery capacity up to 50% in just 30 minutes with an 18 watt battery charger (18-watt are included with iPhone 11 Pro and are available separately with iPhone 11.) Audio sharing with two series of AirPods to Beats headphones on one iPhone. Spacious audio that simulates Dolby Atmos surround sound that simulates sound moving in a 3D space Dual SIM with eSIM QuickTake: This is a new feature in iOS 13 on the iPhone 11. During the composition of a normal photo, you can now tap and hold the shutter button to take a quick video called QuickTake, which will appear as a short clip in the Photo library. Night mode: This new camera mode is enabled automatically when it is dark enough to use it, and it works with new camera sensors to make photos of poor pop lighting as never before. It takes shorter and longer frames and merges them automatically to improve the performance of poor lighting. Additional resources Which operating system is compatible with iPhone 11? iPhone 11 and iPhone 11 Pro ship with iOS 13, the latest type of Display Super Retina XDR OLED (display Super Retina XDR) Size 6.12" 3.58" 3.6.5" 3 View brightness 625NITS MAX; up to 1200NITS (HDR) 800NITS MAX; up to 120 hours high-speed camera with 12 hours high-speed camera with 12 hours high-speed zoom What are the main competitors of the iPhone 11? The biggest competitor with the iPhone 11, especially with regard to the camera, is Google Pixel 3 and Pixel 3 XL. Google Pixel devices use machine learning (just like the new deep melt feature on iPhone 11 Pro) to create the best possible image instead of capturing the image directly from camera sensors. Google Pixel's devices have won many smartphone photography trophies because of this feature and I expect Google and Apple continue to compete on this front. Other competitors for iPhone 11 include Samsung Galaxy S10 and Samsung Galaxy Note 10. Both devices include new cameras and came with displays that compete directly with iPhone 11 and iPhone 11 Pro. Additional resources What is the target market for iPhone 11? iPhone 11 is marketed towards traditional users for iPhones and mid-range iPhone XR, iPhone XS, or older iPhone devices. The iPhone 11 Pro is also marketed for iPhone users who are looking to supercharge their device. The iPhone 11 Pro includes additional features for mobile photographers, videographers, and users who want better battery life or a bigger screen choose this device over the standard version of the iPhone 11. Additional resources Where can the iPhone 11 Pro be purchased? The iPhone 11, 11 Pro, and 11 Pro Max was available in the US, Puerto Rico, US Virgin Islands, and more than 30 other countries and regions on September 20, 2019. Additional countries and regions are expected to be added later in 2019 and in 2020. Additional resources How can I get an iPhone 11? Customers who want to purchase the iPhone 11, iPhone 11 Pro, or iPhone 11 Pro Max should check with their local Apple Store or cellular carrier website for pricing and availability. The pricing listed in the next section of this article reflects pricing in the US. The iPhone 11, 11 Pro, and 11 Pro Max is available in the US, Puerto Rico, US Virgin Islands, and more than 30 other countries. Additional resources How much does the iPhone 11 cost? The iPhone 11 will be available at these price points: 64 GB for \$699 128 GB for \$749 256 GB for \$849 The iPhone 11 Pro will be available at these price points: 64 GB for \$999 256 GB for \$1,149 512 GB for \$1,349 The iPhone 11 Pro Max will be available at these price points: 64 GB for \$1,099 256 GB for \$1,249 512 GB for \$1,449 Additional resources resources

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