

CHAPTER 9 CHEMICAL NAMES FORMULAS ANSWERS CORE TEACHING

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How is the ionic charge of a group 1A, 2A, or 3A ion determined? Key- When the metals in Groups 1A, 2A, & 3A lose electrons, they form cations w/ positive charges equal to their group number. The names of the cations of Group 1A, Group 2A, & Group 3A metals are the same as the name of the metal, followed by the word ion or cation.

What is a polyatomic ion? Polyatomic ions are ions which consist of more than one atom and acts as a unit. For example, nitrate ion, NO_3^- , contains one nitrogen atom and three oxygen atoms. The atoms in a polyatomic ion are usually covalently bonded to one another, and therefore stay together as a single, charged unit.

What prefix indicates each of the following numbers of atoms?

What is the general name for compounds composed of two elements? A binary molecular compound is a molecular compound that is composed of two elements. The elements that combine to form binary molecular compounds are both nonmetal atoms. This contrasts with ionic compounds, which are formed from a metal ion and a nonmetal ion.

What is the charge on the ions formed by group 1A metals and group 2A metals? Ions formed from elements in Group 1A of the periodic table have a 1+ charge. 2. Ions formed from elements in Group 2A of the periodic table have a 2+ charge.

Why do ions easily form from group 1A 2A 7A atoms? If you look at the periodic table above you will note that the Group 1A, 2A and 3A elements all form positive ions or Cations. This is because it is easier energetically for those elements to lose 1, 2, or 3 electrons than it would be for them to gain 5, 6 or 7 electrons.

What is the formula unit for a compound made from Fe^{3+} and oxygen? The compound formed from Fe^{3+} and O^{2-} has the formula Fe_2O_3 and is named iron(III) oxide. 5.

What is a positive ion called?

Which ion always contains more than one atom? The prefix poly- means many, so a polyatomic ion is an ion that contains more than one atom. This differentiates polyatomic ions from monatomic ions, which contain only one atom.

How are chemical formulas written for binary ionic compounds? For a binary ionic compound, a metal will always be the first element in the formula, while a nonmetal will always be the second. The metal cation is named first, followed by the nonmetal anion. Subscripts in the formula do not affect the name.

How are formulas written for ionic compounds with polyatomic ions?

How do we determine how many of each atom are in a binary molecular compound? Writing formulas for binary molecular compounds is simple. The prefixes tell exactly how many atoms of each element are present in one molecule.

How does a polyatomic anion differ from a monatomic anion? Flexi Says: A monatomic ion is formed when a single atom gains or loses electrons. A polyatomic ion is an ion composed of more than one atom.

How do chemical bonds form between the atoms in a molecular compound? Bonds form when atoms share or transfer valence electrons. Valence electrons are the electrons in the outer energy level of an atom that may be involved in chemical interactions. Valence electrons are the basis of all chemical bonds.

What types of elements make up a binary ionic compound? A binary ionic compound is composed of ions of two different elements - one of which is a metal,

and the other a nonmetal. For example, iron(III) iodide, FeI_3 , is composed of iron ions, Fe^{3+} (elemental iron is a metal), and iodide ions, I^- (elemental iodine is a nonmetal).

How is the periodic table organized such that elements in the same group have the same ionic charge? Elements that belong to the same main group (vertical column) on the periodic table form ions with the same charge because they have the same number of valence electrons.

Which groups in the periodic table can form anions? Group 1A and 2A of the periodic table, alkali metals and alkaline earth metals respectively, always form cations. In contrast, Group 17A, which consists of halogens, always forms anions. Most metals (e.g., iron, lead, gold) form cations, whereas most nonmetals (e.g., oxygen, nitrogen, sulfur) form anions.

What kind of element forms anion after ionic bonding? The Formation of Ionic Compounds Binary ionic compounds are composed of just two elements: a metal (which forms the cations) and a nonmetal (which forms the anions).

How many electrons do atoms of iodine have in their highest energy level? Iodine has 7 valence electrons in the valence shell which means that there are 7 electrons in its outer shell. A neutral iodine atom will have a total of 53 electrons around its nucleus. Out of these 53 electrons, some are known as valence electrons while others are known as core electrons.

Why are metals in group 1a so reactive responses? Alkali metals are among the most reactive metals. This is due in part to their larger atomic radii and low ionization energies. They tend to donate their electrons in reactions and have an oxidation state of +1.

Why do group 7A elements will form a single covalent bond? As you have seen, the halogens-group 7A elements-such as fluorine, have seven valence electrons. To attain an octet, one more electron is necessary. Therefore, group 7A elements will form a single covalent bond.

How do you determine the charge for metals from groups 1A 2A and 3A? Metals in 1A, 2A, and 3A form cations with charges equal to their group numbers.

Group A nonmetals form anions with charges equal to their group numbers minus 8. Often, the charge of a transition metal cation must be determined from the number of electrons lost.

How is the ionic charge of a group 1, 2, or 13 ion determined?

How is the ionic charge of an ion determined? An atom with an electric charge is called an ion. The charge of an ion is equal to the number of protons minus the number of electrons.

How do the metals in groups 1A 2A and 3A form ions? Final answer: The metals in Groups 1A, 2A, and 3A in the Periodic Table lose electrons when they form ions. They form positively charged ions or cations corresponding to their group number.

Trimline T315 Treadmill User Manual: A Comprehensive Guide

The Trimline T315 treadmill is a versatile and reliable fitness machine that offers a wide range of features to enhance your workout experience. Its user manual provides detailed instructions on assembly, operation, and maintenance to ensure optimal performance.

1. Assembly and Setup

- Q: How do I assemble the treadmill?
- A: Refer to the manual for step-by-step assembly instructions. It includes diagrams, parts lists, and safety precautions to ensure proper setup.

2. Basic Operation

- Q: How do I start and stop the treadmill?
- A: Use the console controls to start, adjust speed, and stop the treadmill. The manual explains the functions of each button and display.
- Q: What are the safety features?
- A: The treadmill is equipped with a safety key that must be attached to stop the belt in the event of an emergency.

3. Advanced Features

- Q: How do I use the heart rate monitor?
- A: The manual guides you on how to connect the heart rate monitor and interpret heart rate readings.
- Q: What are the workout programs?
- A: The treadmill offers a variety of preset workout programs designed for specific fitness goals. The manual describes each program and provides instructions for customization.

4. Maintenance and Troubleshooting

- Q: How often should I lubricate the belt?
- A: The manual recommends regular lubrication and provides instructions on how to do it.
- Q: What should I do if the treadmill stops working?
- A: Refer to the troubleshooting section of the manual for common issues and solutions. If the problem persists, contact customer support.

5. Safety Precautions

- Q: What are the safety precautions for using the treadmill?
- A: The manual emphasizes proper use, clothing, and hydration to prevent injuries. It also includes guidelines for pregnant women, people with disabilities, and those using medications.

Shorthand Speed Tests at 50-120 Words per Minute: Your Guide

Q1: What is a shorthand speed test? A: It's an assessment that determines how quickly you can write in shorthand. It measures your accuracy, speed, and efficiency in capturing spoken language.

Q2: Why are shorthand speed tests important? A: They certify your proficiency and showcase your ability to transcribe accurately and efficiently. This is essential for shorthand professionals, such as court reporters and stenographers.

Q3: What's the range of shorthand speed tests? A: Typically, speed tests range from 50 words per minute (wpm) to 120 wpm. The higher the speed, the more challenging and demanding the test.

Q4: How do I prepare for a shorthand speed test? A: Practice regularly, study your shorthand system thoroughly, and take mock tests. Set realistic goals and gradually increase your speed while maintaining accuracy.

Q5: How can I issue a shorthand speed test? A: Look for certifying organizations or platforms that offer official speed tests. They provide standardized materials and ensure the validity of your results. Once issued, the test results can serve as evidence of your shorthand proficiency.

How many miles will a 2003 Hummer H2 last? How Long Do They Really Last? Depending on how you use them, hummers can last for a long period of time. That is because they are designed to withstand rough terrains and really bad weather. Many people get a lifetime of 300,000 to 500,000 miles from a Hummer.

What is the mileage on a 2009 Hummer H2? All in all, Hummer H2s get as high as 11 or 12 miles per gallon on average. To be more precise, 13 MPGs on the highway and 10 MPGs in the city, which makes it a bad fit for those looking for gas efficiency.

What year was the last Hummer H2 made? While the HUMMER H2 proved very popular in the early years of production, its characteristic large stature and big V-8 engine was ultimately the vehicles undoing when gas prices spiked in the late 2000s. Production of the H2 ceased after the 2009 model year.

Are Hummer H2 reliable? The Hummer H2 has a good reputation in terms of reliability.

Are hummers expensive to maintain? The annual maintenance cost of a Hummer is \$662. Repair and maintenance costs vary depending on age, mileage, location and shop.

How long will a Hummer engine last? The H2 is the most durable Hummer model, with numerous examples clocking almost 300,000 miles, and some even reaching close to 500,000 miles. The H3, meanwhile, can last over 200,000 miles with the

smaller inline five-cylinder engines, and over 400,000 miles with the Vortec V8 engine.

What are the disadvantages of the Hummer H2? However, the H2's strengths were also its weaknesses. Its large size and powerful engine translated to abysmal fuel economy, averaging a mere 10 mpg in the city and 13 mpg on the highway. This, coupled with its release coinciding with rising gas prices and growing environmental concerns, made it a target for criticism.

Is Hummer H2 fuel efficient? The Hummer H2 can run from 10 to 14 miles per gallon. This model's poor fuel economy can be attributed to its 6.0-liter V8 engine. The Hummer H2 weighs nearly as heavy as two sedans, weighing approximately 6,413 pounds.

Is Hummer H2 powerful? So, it uses a 6.0-liter V-8 rated at 325 horsepower at 5200 rpm and 385 pound-feet of torque at 3600 rpm, with a four-speed automatic. The powertrain is GM's version of the psychic connection, quick to figure out what the driver wants, relatively quiet, smooth, and big-displacement strong.

How many miles can a H2 get?

How many miles can a Hummer go up to? Boasting a range of 311 miles in the two-motor configuration and a maximum of 381 miles when assisted by three motors, the Hummer EV Pickup can go a decent distance on one charge of its huge battery.

What is the maximum mileage for a Hummer?

What is the fuel mileage on a 2003 Hummer H2?

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