

CHAPTER 9 CHEMICAL NAMES FORMULAS

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 that contains more than one atom and acts as a unit? Polyatomic ions are ions which consist of more than one atom. 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, & 3A 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.

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Tamil Magazines Online: A Treasure Trove of Information and Entertainment

Q: What are Tamil magazines online?

A: Tamil magazines online are digital versions of traditional print magazines that provide a comprehensive range of content tailored specifically to Tamil-speaking audiences worldwide. These magazines offer a variety of articles covering topics such as news, politics, culture, lifestyle, and entertainment, catering to the interests and needs of different segments of the Tamil community.

Q: Why should I subscribe to Tamil magazines online?

A: Subscribing to Tamil magazines online offers several benefits:

- Access to a vast collection of magazines in one convenient location
- Real-time updates and breaking news
- Interactive features such as online forums and community discussions
- Environmentally friendly alternative to paper subscriptions
- Global reach, connecting you with the Tamil diaspora

Q: Which are some popular Tamil magazines online?

A: Some of the most widely read Tamil magazines online include:

- **Vikatan:** A well-established magazine covering a wide range of topics, including news, politics, and entertainment.
- **Kumudam:** Known for its investigative journalism and in-depth reporting.
- **Ananda Vikatan:** A leading lifestyle and entertainment magazine featuring articles on movies, fashion, and travel.
- **Kalki:** A literary magazine that publishes short stories, poetry, and serialized novels.
- **Kungumam:** A prominent family magazine offering a blend of news, entertainment, and health tips.

Q: How can I find Tamil magazines online?

A: Several websites and platforms offer access to Tamil magazines online. You can find them by searching for "Tamil magazines online" in search engines or visiting websites such as:

- Magzter
- Joomag
- Issuu
- Flipboard

Q: Are there any free Tamil magazines online?

A: Yes, there are a number of free Tamil magazines available online. Some popular choices include:

- Tamil Wire
- Tamil Tribune
- Tamil Heritage
- TamilInfo
- TamilCulture

What is the evolution of discipline? The evolution of disciplines is a continuous process. As the human beings, societies and technologies develop, human understanding and interpretations also develops and it results in the formation of new knowledge and emergence of new disciplines.

What is the role of public administration as a discipline? The field involves the organization, operation, and strategic coordination of bureaucratic structures in the public sector. Public administrators play a significant role in devising and executing policies, managing shared resources, and ensuring the efficient functioning of government agencies and programs.

What are the phases of the evolution of public administration? The development of Public Administration as an academic field can be discussed through the following five successive phases: Phase I: The Politics/Administration Dichotomy (1887-1926) Phase II: The Principles of Administration (1927-1937) Phase III: Criticism and Challenges (1938-1950)

What is the evaluation of public administration? The evaluation of public administration involves assessing its effectiveness, efficiency, and overall performance in delivering public services, implementing policies, and managing government resources.

Is evolution a discipline? Just as human history explains the geopolitical configurations of our world today, modern biological systems are a direct result of their evolutionary past. Hence, evolutionary theory is the cornerstone of the discipline of biology (Rutledge and Warden, 2000).

What is the evolution of political science as a discipline? Political Science started to have relevance in the late half of the 19th century. The evolution of Political Science has its roots in the times of Aristotle and Plato. In the beginning, Political Science separated itself from political philosophy, which had its roots in the era of Plato and Aristotle.

Where did public administration as a discipline originated in? Public Administration as a discipline is said to be originated in America. It enriches the discipline even today. In the year 1887, Woodrow Wilson, a Professor of Political Science who later became the President of America wrote an essay titled, "The Study of Administration".

What does discipline mean in administration? According to the business dictionary, employee discipline is defined as the regulations or conditions that are imposed on employees by management in order to either correct or prevent behaviors that are detrimental to an organization.

Why is administrative discipline important? Administrative Discipline. An administrative tool designed as a control in inducing employees to conform to established rules. It generates in public officers and employees the development of moral values, skills and attitude for their effective participation in the institutional process of government.

What are the 5 periods of public administration?

What are the four types of public administration?

What is the golden age of public administration? Hence PERIOD II (1927-1937) is considered the "Golden era of principles" in the development of Public Administration.

What are the 4 P's of public administration? According to Luther Gulick, an eminent scholar of Public Administration, there are four basis of department organization, these are purpose, process, person, place, popularly known as 4Ps Principle.

What is the conclusion of the evolution of public administration? Conclusion. There have been various phases in the development of public administration as a subject since the beginning of the last century. The field began with the politics-administration dichotomy in the late 19th century to establish its legitimacy and its independence from political influences.

What are the five concepts of public administration? In view of various definitions of the scope of public administration, it is cleared that acronym PODSDCORB standing for planning, organizing, staffing, directing, coordinating, reporting & budgeting.

What is the evolution of the discipline IR? The evolution of International Relations has a long history, dating back to ancient times when philosophers like Thucydides and Aristotle wrote about the nature of war and peace. However, the modern discipline of IR emerged in the post-World War II era, particularly in the United States.

What is the history of discipline? It can be viewed as a regulated system of acquiring knowledge in society through teaching and learning. The origins of disciplines similar to the ones we know today can be traced back to the ancient Greeks, around 500 BCE with a focus on religion and the military.

How has discipline changed over the years? In the past, harsh discipline was the norm for families in society. However, research by psychologists has brought about new forms of effective discipline. Positive discipline is based on minimizing the child's frustrations and misbehavior rather than giving punishments.

What are the stages of discipline? What are the four stages of disciplinary action? The steps in the disciplinary procedure generally follow graduated steps, including a verbal warning, written warning, final written warning, and dismissal. However, in cases of gross or serious misconduct, it is permissible to go straight to stage 4 of the procedure.

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chapter 9 chemical names and formulas answers chapter 9 chemical names and formulas