How are ione reads from neutral atoms?

You have learned that not all atoms of an element are the name. Variation in the number of neutrons results in different isotopes of the element. In this activity we will explore another variation that can take place—the loss and gain of electrons. The exchange of electrons between atoms is a very common way for chemical change to take place. We will see it many times throughout the year.

Use Model I (on the next pend) to complete the following table.

1. Use some	Metal or Nonmetal?	Is the number of protons the name in the atom and the ion?	Is the number of meutrons the atom and the ion?	number of electrons the same in the atom and the lon?	Charge on the ion
Linkówny	Metal	Yes	Yes	NO	1+
Magnesium	Metal	Yes	Yes	No	2+
Abaminum	Mecal	Yes	Yes	No	3+
Pluorine	Mon-Metal	Yes	Yes	No	1-
Oxygen	numetal	ves	yes	No	2
Nitrogen	rupn-metral	Yes	Yes	rulo .	3-

- 2. Based on the table, what distinguishes a neutral atom from an ion? a neutral atom was the same amount of prande
- 3. Examine the isotope symbols in Model 1.
 - a) Where is the ion charge located in the isotope symbol?
 - the charge of an ion comes after the charge number
 - b) Is a charge indicated on the neutral atoms? If yes, where is it located?
 - A charge isn't indicated in neutral actions bic oney don't have a charge and P'-e' = 0.
- 4. Which substomic particle carries a positive charge?
- Lis Ma, Pil
- 5. Which autoronic particle carries a negative chargo?
 - FI. O. N
- 6. Propose a mathematical equation to calculate the charge on an ion from the number of protons and electrons in an ion. Confirm that your equation works using a positive ion example and a negative ion example from Model 1.

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Judd E. Hollander

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ion CH3COO ion in case of weak acid CH3COOH 5 To determine the change in pH value of weak base NH4OH in presence of a common ion NH4 Viva Voce 4 Chemical Equilibrium 1 To study the shift in equilibrium between ferric ions and thiocyanate ions by changing the concentrations of either of the ions 2 To study the shift in equilibrium between Co H2O 6 2 and Cl ions by changing the concentrations of either of the ions Viva Voce 5 Quantitative Analysis 1 To prepare M 10 oxalic acid solution by direct weighing method 2 To prepare M 10 solution of sodium carbonate by direct weighing method 3 To determine the strength of given solution of sodium hydroxide by titrating it against N 10 or M 20 solution of oxalic acid 4 To determine the strength of a given solution of hydrochloric acid by titrating it against a standard N 10 or M 20 sodium carbonate solution Viva Voce 6 Qualitative Analysis Analysis of Anions Analysis of Cations Viva Voce 7 Detection of Elements in Organic Compounds 1 To detect the presence of nitrogen sulphur and halogens in a given organic compound by Lassaigne s test 2 To detect the presence of nitrogen sulphur and halogens in the given organic compound sample number by Lassaigne s test Viva Voce INVESTIGATORY PROJECTS 1 Checking of Bacterial Contamination in Water 1 To check the bacterial contamination in drinking water by testing sulphide ions Viva Voce 2 Methods of Water Purification 1 To purify water from suspended impurities by using sedimentation 2 To purify water by boiling 3 o purify water by distillation method 4 To purify water by reverse osmosis technique 5 To purify water by GAC method 6 To purify water by bleach treatment 7 To purify water by oxidising agent 8 To purify water by ozone treatment method Viva Voce 3 Water Analysis 1 To test the hardness of different water samples Viva Voce 4 Foaming Capacity of Various Soaps 1 To compare the foaming capacity of different washing soaps 2 To study the effect of addition of sodium carbonate on foaming capacity of washing soap Viva Voce 5 Tea Analysis 1 To study the acidity of different samples of tea leaves tea by using pH paper Viva Voce 6 Analysis of Fruits and Vegetable Juices 1 To analysis the fruit and vegetable juices for the constituent present in them Viva Voce 7 Rate of Evaporation 1 To study the rate of evaporation of different liquids lViva Voce 8 Effect of Acids and Bases on Tensile Strength of Fibres 1 To compare the tensile strength of natural fibres and synthetic fibres 2 To study the effect of acids and bases on tensile strength of Fundamentals of Introductory Chemistry Darrell D. Ebbing, 1998-06-01 different fibres Viva Voce Syllabus for Chemistry, Student Study Guide John A. Olmsted, Gregory M. Chemistry 130-230 University of Chicago, 1935 Williams, 2002-01-04 This third edition continues to innovate by providing students with an integrated and modern approach to the subject The text emphasizes the modern tools of chemistry while incorporating historical evidence and its unique molecular quantitative emphasis is further reinforced by an integrated media package developed by the authors Also of benefit is the just in time presentation of key content only providing details once they are needed While key topics and analytical techniques have been updated there is now an additional third chapter on chemical equilibrium. The authors have also developed an expanded and more integrated problem solving emphasis that now incorporates a 4 step strategy throughout complete with text icons The whole is backed by a range of supplements including a new illustration program a

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