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Net ionic equations worksheet pdf with answers

Page ID160061 From the statement "nitrogen and hydrogen," identify the reactants and the products. From the statement "magnesium hydroxide reacts with nitric acid to produce magnesium nitrate and water," identify the reactants and the products. From the statement "propane reacts with oxygen to produce carbon dioxide and water," identify the reactants and the products. Write and balance the chemical equation described by Exercise 2. Write and balance the chemical equation described by Exercise 3. Write and balance: NaClO3 - NaCl + O2 Balance: NaClO3 - NaCl + O2 Balance: C2H4 + O2 - CO2 + H2O How would you write the balanced chemical equation in Exercise 10 if all substances were gases? How would you write the balanced chemical equation in Exercise 12 if all the substances except water were gases and water itself were a liquid? Answers reactants: magnesium hydroxide and nitric acid; products: magnesium nitrate and water Mg(OH)2 + 2HNO3 → Mg(NO3)2 + 2H2O What are the general characteristics that help you recognize double-replacement reactions? What are the general characteristics that help you recognize double-replacement reactions? What are the general characteristics that help you recognize double-replacement reactions? What are the general characteristics that help you recognize double-replacement reactions? equation, $\operatorname{Zn} + \operatorname{Fe(NO3)2} \to \operatorname{F2} + \operatorname{FeI3} \to \operatorname{Passuming}$ that each single-replacement reaction occurs, predict the products and write each balanced chemical equation. $\operatorname{Sn} + \operatorname{H2SO4} \to \operatorname{Passuming}$ that each single-replacement reaction occurs, predict the products and write each balanced chemical equation. $\operatorname{Sn} + \operatorname{H2SO4} \to \operatorname{Passuming}$ that each single-replacement reaction occurs, predict the products and write each balanced chemical equation. ? Assuming that each single-replacement reaction occurs, predict the products and write each balanced chemical equation. $Mg + HCl \rightarrow PHI + Br2 \rightarrow PHI$ table or the activity series to predict if each single-replacement reaction will occur and, if so, write a balanced chemical equation. NaI + Cl2 \rightarrow ? AgCl + Au \rightarrow ? Use the periodic table or the activity series to predict if each single-replacement reaction will occur and, if so, write a balanced chemical equation. Pt + H3PO4 \rightarrow ? (Hint: treat H2O as if it were composed of H+ and OH- ions.) Assuming that each double-replacement reaction occurs, predict the products and write each balanced chemical equation. $Zn(NO3)2 + NaOH \rightarrow ?HCl + Na2S \rightarrow ?Assuming that each double-replacement reaction occurs, predict the products and write each balanced chemical equation.$ $Pb(NO3)2 + KBr \rightarrow ? K2O + MgCO3 \rightarrow ? Assuming that each double-replacement reaction occurs, predict if each double-replacement reaction will occur and, if so, write a balanced chemical equation. <math>Pb(NO3)2 + KBr \rightarrow ? CsNO3 + KCl \rightarrow ? Use the solubility rules to predict if each double-replacement reaction will occur and, if so, write a balanced chemical equation. <math>Pb(NO3)2 + KBr \rightarrow ? CsNO3 + KCl \rightarrow ? Use the solubility rules to predict if each double-replacement reaction will occur and, if so, write a balanced chemical equation. <math>Pb(NO3)2 + KBr \rightarrow ? CsNO3 + KCl \rightarrow ? Use the solubility rules to predict if each double-replacement reaction will occur and, if so, write a balanced chemical equation. <math>Pb(NO3)2 + KBr \rightarrow ? CsNO3 + KCl \rightarrow ? Use the solubility rules to predict if each double-replacement reaction will occur and, if so, write a balanced chemical equation. <math>Pb(NO3)2 + KBr \rightarrow ? CsNO3 + KCl \rightarrow ? Use the solubility rules to predict if each double-replacement reaction will occur and <math>Pb(NO3)2 + KBr \rightarrow ? CsNO3 + KCl \rightarrow ? Use the solubility rules to predict if each double-replacement reaction will occur and <math>Pb(NO3)2 + KBr \rightarrow ? CsNO3 + KCl \rightarrow ? Use the solubility rules to predict if each double-replacement reaction will occur and <math>Pb(NO3)2 + KBr \rightarrow ? CsNO3 + KCl \rightarrow ? Use the solubility rules to predict if each double-replacement reaction will occur and <math>Pb(NO3)2 + KBr \rightarrow ? Use the solubility rules to predict if each double-replacement reaction will occur and <math>Pb(NO3)2 + KBr \rightarrow ? Use the solubility rules to predict if each double-replacement reaction will occur and <math>Pb(NO3)2 + KBr \rightarrow ? Use the solubility rules to predict if each double-replacement reaction will occur and <math>Pb(NO3)2 + KBr \rightarrow ? Use the solubility rules to predict if each double-replacement reaction will occur and <math>Pb(NO3)2 + KBr \rightarrow ? Use the solubility rules to predict if each double-replacement reaction will occur and <math>Pb(NO3)2 + KBr \rightarrow ? Use the solubility rules to predict if each double-replacement reaction will occur and <math>Pb(NO3)2 + KBr \rightarrow ? Use the solubility rules to p$? K2O + Na2CO3 \rightarrow ? Use the solubility rules to predict if each double-replacement reaction will occur and, if so, write a balanced chemical equation. K3PO4 + SrCl2 \rightarrow ? Use the solubility rules to predict if each double-replacement reaction will occur and, if so, write a balanced chemical equation. K3PO4 + SrCl2 \rightarrow ? NaOH + MgCl2 \rightarrow ? Use the solubility rules to predict if each double-replacement reaction will occur and, if so, write a balanced chemical equation. KC2H3O2 + Li2CO3 \rightarrow ? KOH + AgNO3 \rightarrow ? Answers One element replaces another element in a compound. Zn + Fe(NO3)2 + Fe 3F2 + 2FeI3 \rightarrow 3I2 + 2FeF3 Sn + H2SO4 \rightarrow SnSO4 + H2 2Al $+3 \text{NiBr2} \rightarrow 2 \text{AlBr3} + 3 \text{Ni No reaction occurs}. \ Fe(\text{NO3})3 + \text{Al} \rightarrow \text{Al}(\text{NO3})3 + \text{Fe 2NaI} + \text{Cl2} \rightarrow 2 \text{NaCl} + \text{H2S Pb}(\text{NO3})2 + 2 \text{KBr} \rightarrow \text{PbBr2} + 2 \text{KNO3 K2O} + \text{MgCO3} \rightarrow \text{K2CO3} + \text{MgO Pb}(\text{NO3})2 + 2 \text{KBr} \rightarrow \text{PbBr2}(\text{s}) + 2 \text{KNO3 No reaction occurs}. \ 2 \text{K3PO4} + 3 \text{SrCl2} \rightarrow 2 \text{NaCl} + \text{H2S Pb}(\text{NO3})2 + 2 \text{KBr} \rightarrow \text{PbBr2}(\text{s}) + 2 \text{NaO} + 2 \text{NaCl} + \text{H2S Pb}(\text{NO3})2 + 2 \text{NaO} + 2 \text{$ Sr3(PO4)2(s) + 6KCl 2NaOH + MgCl2 → 2NaCl + Mg(OH)2(s) Write a chemical equation that represents NaBr(s) dissociating in water. Write a chemical equation that represents Fe(C2H3O2)3(s) dissociating in water. Write the complete ionic equation for the reaction of FeCl2(aq) and Na2SO4(aq). You may have to consult the solubility rules. Write the complete ionic equation for the reaction of KCl(aq) and NaC2H3O2(aq). You may have to consult the solubility rules. Write the net ionic equation for the reaction of Fe2(SO4)3(aq) and Sr(NO3)2(aq). You may have to consult the solubility rules. Write the net ionic equation for the reaction of BaCl2(aq) and Na2SO4(aq). You may have to consult the solubility rules. Write the net ionic equation for the reaction of Fe2(SO4)3(aq) and Sr(NO3)2(aq). You may have to consult the solubility rules. Write the net ionic equation for the reaction of Fe2(SO4)3(aq) and Sr(NO3)2(aq). You may have to consult the solubility rules. spectator ions in Exercises 9 and 10. Identify the spectator ions in Exercises 11 and 12. Answers NaBr(s) $-\rightarrow$ H2O \rightarrow H2O $+ K+(aq) + C2H3O2-(aq) 2Cl-(aq) + 2Aq+(aq) \rightarrow 2AqCl(s)$ There is no overall reaction. In Exercise 9, Fe2+(aq) and NO3-(aq) are spectator ions; in Exercise 10, Na+(aq) and NO3-(aq) are spectator ions; in Exercise 10, Na+(aq) and NO3-(aq) are spectator ions. Which is a composition reaction and which is not? H2 + Cl2 \rightarrow 2HCl 2HBr + Cl2 \rightarrow 2HCl 2HBr + Cl2 \rightarrow 2HCl + Br2 Which is a composition reaction and which is not? 4Na + 2C + 3O2 \rightarrow 2Na2CO3 Na2CO3 \rightarrow Na2O + CO2 Which is a decomposition reaction and which is not? 4Na + 2C + 3O2 \rightarrow 2Na2CO3 Na2CO3 \rightarrow Na2O + CO2 Which is a decomposition reaction and which is not? 4Na + 2C + 3O2 \rightarrow 2Na2CO3 Na2CO3 \rightarrow CaO + CO2 Which is a decomposition reaction and which is not? 4Na + 2C + 3O2 \rightarrow 2Na2CO3 Na2CO3 \rightarrow CaO + CO2 Which is a decomposition reaction and which is not? 4Na + 2C + 3O2 \rightarrow 2Na2CO3 Na2CO3 \rightarrow CaO + CO2 Which is a decomposition reaction and which is not? 4Na + 2C + 3O2 \rightarrow 2Na2CO3 Na2CO3 \rightarrow CaO + CO2 Which is a decomposition reaction and which is not? 4Na + 2C + 3O2 \rightarrow 2Na2CO3 Na2CO3 \rightarrow 2Na2CO3 \rightarrow 2Na2CO3 CO2 Which is a decomposition reaction and which is not? $302 \rightarrow 203$ 2KClO3 $\rightarrow 2$ CO3 + $302 \rightarrow 203$ 2KClO3 $\rightarrow 2$ CO3 + $302 \rightarrow 203$ 2KClO3 $\rightarrow 2$ CO2 + $302 \rightarrow 203$ 2KClO3 $\rightarrow 2$ CO3 + $302 \rightarrow 2$ CO3 + 30reaction and which is not? C6H12O6 + 6O2 \rightarrow 6CO2 + 6H2O 2Fe2S3 + 9O2 \rightarrow 2Fe2O3 + 6SO2 Which is a combustion reaction and which is not? C4 + 2F2 \rightarrow CF4 + 2H2 2H2 + O2 \rightarrow 2H2O Which is a combustion reaction and which is not? C4H4 + 2F2 \rightarrow CF4 + 2H2 2H2 + O2 \rightarrow 2H2O Which is a combustion reaction and which is not? C4H4 + 2F2 \rightarrow CF4 + 2H2 2H2 + O2 \rightarrow 2H2O Which is a combustion reaction and which is not? C4H4 + 2F2 \rightarrow CF4 + 2H2 2H2 + O2 \rightarrow 2H2O Which is a combustion reaction and which is not? C4H4 + 2F2 \rightarrow CF4 + 2H2 2H2 + O2 \rightarrow 2H2O Which is not? C4H4 + 2F2 \rightarrow CF4 + 2H2 2H2 + O2 \rightarrow 2H2O Which is not? C4H4 + 2F2 \rightarrow CF4 + 2H2 2H2 + O2 \rightarrow 2H2O Which is not? C4H4 + O2 \rightarrow 2H2O Whi $O2 \rightarrow C2H4O2 \ C2H4 + Cl2 \rightarrow C2H4Cl2 \ Is$ it possible for a decomposition reaction? Give an example to support your case. Is it possible for a decomposition reaction to also be a combustion reaction? Give an example to support your case. Is it possible for a decomposition reaction? \rightarrow ? Complete and balance each combustion equation. B2H6 + O2 \rightarrow ? (The oxide of sulfur formed is SO3.) Al2S3 + O2 \rightarrow ? (The oxide of sulfur formed is SO3.) Answers not composition not decomposition not decomposition not decomposition formed is SO3.) Answers not composition formed is SO3.) will vary) C4H9OH + 6O2 \rightarrow 4CO2 + 5H2O 4CH3NO2 + 3O2 \rightarrow 4CO2 + 6H2O + 2N2 What is the Arrhenius definition of a base? Predict the products of each acid-base combination listed. Assume that a neutralization reaction occurs. HCl and KOH H2SO4 and KOH H3PO4 and Ni(OH)2 Predict the products of each acid-base combination listed. Assume that a neutralization reaction occurs. HBr and Fe(OH)3 HNO2 and Mg(OH)2 Write a balanced chemical equation for each neutralization reaction in Exercise 4. Write a balanced chemical equation for the neutralization reaction between each given acid and base. Include the proper phase labels. $H(aq) \rightarrow P(aq) \rightarrow P$ ionic equation for each neutralization reaction in Exercise 7. Write the net ionic equations for the neutralization reaction in Exercise 8. Write the complete and net ionic equations for the neutralization reaction in Exercise 8. between H2C2O4(s) and Sr(OH)2(aq). Assume the salt is insoluble. Explain why the net ionic equation for the neutralization reaction between HCl(aq) and RbOH. Explain why the net ionic equation for the neutralization reaction between HCl(aq) and RbOH. KOH(aq) is different from the net ionic equation for the neutralization reaction between HCl(aq) and KOH(aq) using the hydronium ion? Write the complete and net ionic equations for the neutralization reaction between HCl(aq) and KOH(aq) using the hydronium ion? Write the complete and net ionic equations for the neutralization reaction between HCl(aq) and KOH(aq) using the hydronium ion? Write the complete and net ionic equations for the neutralization reaction between HCl(aq) and KOH(aq) using the hydronium ion? Write the complete and net ionic equations for the neutralization reaction between HCl(aq) and KOH(aq) using the hydronium ion in place of H+. What difference does it make when using the hydronium ion? Write the complete and net ionic equations for the neutralization reaction between HCl(aq) and KOH(aq) using the hydronium ion in place of H+. What difference does it make when using the hydronium ion? equations for the neutralization reaction between HClO3(aq) and Zn(OH)2(s) using the hydronium ion? Answers An Arrhenius acid increases the amount of H+ ions in an aqueous solution. KCl and H2O K2SO4 and H2O Ni3(PO4)2 and H2O HCl + $KOH \rightarrow KCl + H2O \ H2SO4 + 2KOH \rightarrow K2SO4 + 2H2O \ (l) \ H2SO4(aq) + BaSO4(s) + 2H2O(l) \ H2SO4(aq) + BaSO4(s) + 2H2O(l) \ Complete ionic equation: 2H+(aq) + 2ClO3-(aq) + Zn2+(aq) + Zn2+(a$ $+2 \text{OH}-(\text{ag}) \rightarrow \text{Zn2}+(\text{ag}) + 2 \text{ClO3}-(\text{ag}) + 2 \text{H2O}(\ell)$ Net ionic equation: $\text{H3O}+(\text{ag}) \rightarrow 2 \text{H2O}(\ell)$ Because the salts are soluble in both cases, the net ionic equation: $\text{H3O}+(\text{ag}) \rightarrow 2 \text{H2O}(\ell)$ Net ionic equation: $\text{H3O}+(\text{ag}) \rightarrow 2$ $2H2O(\ell)$ The difference is simply the presence of an extra water molecule as a product. $2K(s) + Br2(\ell) \rightarrow 2KBr(s)$ an oxidation-reduction reaction? Explain your answer. In the reaction 2Ca(s) + Ca(s) + Celectrons and what has gained electrons. In the reaction $2 \text{Li}(s) + 3 \text{S}(s) \rightarrow 8 \text{Fe} 2 \text{S}(s)$ indicate what has been oxidized and what has been oxi reduced. What are two different definitions of oxidation numbers to each atom in each substance. PF5 (NH4)2S Hg Li2O2 (lithium peroxide) Assign oxidation numbers to each atom in each substance. Assign oxidation numbers to each atom in each substance. to each atom in each substance. NaH (sodium hydride) NO2 NO2 – AgNO3 Assign oxidation numbers to each atom in each substance. CH2O NH3 Rb2SO4 Zn(C2H3O2)2 Assign oxidation numbers to each atom in each substance. CH2O NH3 Rb2SO4 Zn(C2H3O2)2 Assign oxidation numbers to each atom in each substance. ightharpoonup 2NOCl Identify what is being oxidized and reduced in this redox equation by assigning oxidation numbers to the atoms. Fe + SO3 ightharpoonup FeSO3 Identify what is being oxidized and reduced in this redox equation by assigning oxidation numbers to the atoms. equation by assigning oxidation numbers to the atoms. SO3 + SCl2 - SOCl2 + SO2 Identify what is being oxidized and reduced in this redox equation by assigning oxidation numbers to the atoms. 2K + MgCl2 - 2KCl + Mg Identify what is being oxidized and reduced in this redox equation by assigning oxidation numbers to the atoms. → 7CO2 + 8H2O Answers Yes; both K and Br are changing oxidation number P: 0 S: +4; O: −2 Ca: 2+; N: +5; O: −2 Ca: 2+; N: +5; O: −2 Ca: 2+; N: +2; Cl: −1 Ni: +3; Cl: −1 Ni: +3; Cl: −1 C: 0; H: +1; O: −2 Ca: 2+; N: +5; O: −2 Ca: 2+; N: +2; Cl: −1 Ni: +3; Cl: −1 C: 0; H: +1; O: −2 Ca: 2+; N: +5; O: −2 Ca N: -3; H: +1 Rb: +1; S: +6; O: -2 Zn: +2; C: 0; H: +1; O: -2 N is being oxidized, and Cl is being oxidized, and Kr is bein the proper phase labels. Chemical equations can also be used to represent physical processes. Write a chemical reaction for the freezing of water, including the proper chemical equation. Explain why $4Na(s) + 2Cl2(g) \rightarrow 4NaCl(s)$ should not be considered a proper chemical equation. Explain why $4Na(s) + 2Cl2(g) \rightarrow 4NaCl(s)$ should not be considered a proper chemical equation. proper chemical equation. Does the chemical reaction represented by 32n(s) + 24n(NO3)(aq) + 24nelectronics. Does your answer suggest why this is so? Explain what is wrong with this double-replacement reaction. NaCl(aq) + SrCl2(aq) \rightarrow ? Write the complete and net ionic equations for this double-replacement reaction. BaCl2(aq) + Ag2SO4(aq) \rightarrow ? Write the complete and net ionic equation? NaCl(aq) + KCl(aq) Complete this reaction and identify the spectator ions. What is the net ionic equation? 3H2SO4(aq) + KBr(aq) \rightarrow NaBr(aq) + KCl(aq) Complete this reaction and identify the spectator ions. What is the net ionic equation? 3H2SO4(aq) + KBr(aq) + KBr(aq 2Al(OH)3(s) →? Can a reaction be a composition reaction and a redox reaction at the same time? Give an example to support your answer. Can a reaction be a composition reaction and a redox reaction at the same time? Give an example to support your answer. Can a reaction be a combustion reaction and a double-replacement reaction at the same time? Give an example to support your answer. Why is CH4 not normally be considered an acid? Methyl alcohol has the formula CH3OH. Why would methyl alcohol not normally be considered an acid? Methyl alcohol has the formula CH3OH. numbers of the nitrogen atoms in these substances? N2 NH3 NO N2O N2O4 N2O5 NaNO3 What are the oxidation numbers of the sulfur atoms in these substance is both oxidized and reduced. Identify the element that is disproportionating and indicate the initial and final oxidation numbers of that element. $2CuCl(qq) \rightarrow CuCl2(qq) \rightarrow$ $(aq) \rightarrow 5Cl - (aq) + ClO_3 - (aq) + 3H2O(\ell)$ Answers $H2O(\ell) \rightarrow H2O(q)$ The coefficients are not in their lowest whole-number ratio. No; zinc is lower in the activity series than aluminum. In the products, the cation is pairing with the anion. Complete ionic equation: $Ba2+(aq) + 2Cl - (aq) + 2Ag+(aq) + SO_4 - (aq) + SO_4$ BaSO4(s) + 2AgCl(s) Net ionic equation. Yes; H2 + Cl2 \rightarrow 2HCl (answers will vary) Yes; 2HCl \rightarrow H2 + Cl2 (answers will vary) It does not increase the H+ ion concentration; it is not a compound of H+. Copper is disproportionating. Initially, its oxidation number is +1; in the products, its oxidation numbers are +2 and 0, respectively. Was this article helpful?

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