

Answers for Predicting Products of Chemical Reactions

For all combustion reactions of hydrocarbons or hydrogen-carbon-oxygen molecules, the products will always be CO_2 and H_2O (assuming a complete reaction).



Note that Mg can only form Mg^{2+} and I can only form I^- , so the product will must have a 1:2 cation:anion ratio.



Note that the product is not H_2Cl_2 . It is important to recognize that CuCl_2 is made of three ions, Cu^{2+} and two Cl^- .



In this question, you must recognize that perchlorate, ClO_4^- , and hydroxide, OH^- , are polyatomic ions and will not break apart. Also, this is an acid-base reaction, so the products should be salt and water.



When reactions have heat as a reactant, it is very likely that they will involve decompositions. Carbonate compounds usually decompose to CO_2 and a metal oxide.



Note that one reactant is in its elemental form; if a single replacement reaction is going to occur, the species NOT in its elemental form in the reactants (H^+ in this case), will end up in its elemental form in the products (H_2) and the species that IS in its elemental form (Zn) will end up ionized (Zn^{2+}). Note that zinc can *only* form a Zn^{2+} ion, so it will have two chloride ions. Note also that hydrogen in its elemental form is H_2 , not H.



Again notice that one species is in its elemental form (Na). The magnesium in MgCl_2 is an ion (Mg^{2+}), but is transformed into its elemental state (Mg), while the Na is converted into an ion (Na^+ , sodium *only* forms a +1 ion).



Recognize that carbonate is a polyatomic ion (CO_3^{2-}) and that the cations are already stable ions (Ca^{2+} and K^+).



Note that both materials are elemental species, so the only result could be a synthesis reaction. In the product, K^+ and Cl^- are formed. Note that we would NOT write the product as K_2Cl . Ionic compounds are written in their simplest forms.



Note that phosphate (PO_4^{3-}) is a polyatomic ion and will not break apart. Since barium is a +2 ion, the barium phosphate will have a 3:2 ratio of $\text{Ba}:\text{PO}_4$ in order to balance the charge.



Notice that sulfate (SO_4^{2-}) is a polyatomic ion and that potassium exists as a +1 ion (K^+). Also, this is an acid-base reaction, so the products should be salt and water.



Another decomposition that will generate CO_2 and a metal oxide (note that Al forms a +3 ion, Al^{3+} , and monatomic oxygen will have a -2 charge, O^{2-}).

Lab Predicting Chemical Reactions Answer Key

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ChemDiscovery Lab Manual Olga I. Agapova, 2002 **Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science**, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction

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