

Chemistry – Unit 7 Worksheet 3

Write balanced chemical equations for the following reactions.

Note: All coefficients of 1 are omitted; in the first 10 items, the coefficients are all 1.

1. Ammonia (NH_3) reacts with hydrogen chloride to form ammonium chloride.
 $\text{NH}_3 + \text{HCl} \rightarrow \text{NH}_4\text{Cl}$

2. Calcium carbonate decomposes upon heating to form calcium oxide and carbon dioxide.
 $\text{CaCO}_3 \rightarrow \text{CaO} + \text{CO}_2$

3. Barium oxide reacts with water to form barium hydroxide.
 $\text{BaO} + \text{H}_2\text{O} \rightarrow \text{Ba}(\text{OH})_2$

4. Acetaldehyde (CH_3CHO) decomposes to form methane (CH_4) and carbon monoxide.
 $\text{CH}_3\text{CHO} \rightarrow \text{CH}_4 + \text{CO}$

5. Zinc reacts with copper (II) nitrate to form zinc nitrate and copper.
 $\text{Zn} + \text{Cu}(\text{NO}_3)_2 \rightarrow \text{Zn}(\text{NO}_3)_2 + \text{Cu}$

6. Calcium sulfite decomposes when heated to form calcium oxide and sulfur dioxide.
 $\text{CaSO}_3 \rightarrow \text{CaO} + \text{SO}_2$

7. Iron reacts with sulfuric acid (H_2SO_4) to form iron (II) sulfate and hydrogen gas.
 $\text{Fe} + \text{H}_2\text{SO}_4 \rightarrow \text{FeSO}_4 + \text{H}_2$

8. A nitrogen containing carbon compound, $\text{C}_2\text{H}_6\text{N}_2$, decomposes to form ethane, C_2H_6 , and nitrogen gas.
 $\text{C}_2\text{H}_6\text{N}_2 \rightarrow \text{C}_2\text{H}_6 + \text{N}_2$

9. Phosgene, COCl_2 , is formed when carbon monoxide reacts with chlorine gas.
 $\text{CO} + \text{Cl}_2 \rightarrow \text{COCl}_2$

Modeling Chemistry Unit 7 3

Carnegie Institute of Technology



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Motor Vehicle-related Air Toxics Study, 1993 **Reorganization of School Units** Katherine Margaret (O'Brien) Cook, Ambrose Caliver, David Segel, Ellen Celia Lombard, Frederick James Kelly, John Ward Studebaker, Severin Kazimierz Turosienski, United States. Office of Education, Walter Sylvanus Deffenbaugh, Chester S. Williams, John Hamilton McNeely, Ward W Keesecker, 1935 **Modelling Molecular Structures** Alan Hinchliffe, 1996-04-19 This up to date treatment of molecular modelling uses a large number of examples to discuss the methods currently in use The text shows how computer modelling can be applied to molecules in DNA chains molecules in polymers single molecules in the gas phase and interactions between molecules **Chemistry in the Community (Enhanced Core Four)** American Chemical Society, 2006-02-15 **College of Fine Arts Catalogue** Carnegie Institute of Technology. College of Fine Arts, 1922

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