

### Types of Chemical Reactions Worksheet #1

#### **H/Chemistry**

For each of the following equations, identify what kind of reaction it represents: double replacement, single replacement, decomposition, or synthesis (composition).

- 1)  $2\text{Mg} + \text{O}_2 \rightarrow 2\text{MgO}$  **Synthesis**
  - 2)  $\text{CaI}_2 + \text{Cl}_2 \rightarrow \text{CaCl}_2 + \text{I}_2$  **Single Replacement**
  - 3)  $3\text{KOH} + \text{AlCl}_3 \rightarrow \text{Al(OH)}_3 + 3\text{KCl}$  **Double Replacement**
  - 4)  $\text{C} + \text{O}_2 \rightarrow \text{CO}_2$  **Synthesis**
  - \*5)  $\text{Ca(OH)}_2 + 2\text{HCl} \rightarrow \text{CaCl}_2 + 2\text{H}_2\text{O}$  **Double Replacement**
  - 6)  $2\text{KClO}_3 \rightarrow 2\text{KCl} + 3\text{O}_2$  **Decomposition**
  - 7)  $3\text{CuSO}_4 + 2\text{Al} \rightarrow \text{Al}_2(\text{SO}_4)_3 + 3\text{Cu}$  **Single Replacement**
  - 8)  $\text{Na}_2\text{S} + 2\text{AgNO}_3 \rightarrow 2\text{NaNO}_3 + \text{Ag}_2\text{S}$  **Double Replacement**
  - 9)  $3\text{H}_2 + \text{N}_2 \rightarrow 2\text{NH}_3$  **Synthesis**
  - \*10)  $2\text{Na} + 2\text{H}_2\text{O} \rightarrow 2\text{NaOH} + \text{H}_2$  **Single Replacement**
- \*Remember: "H<sub>2</sub>O" can also be thought of as "HOH"

Complete each of the following equations as needed to make it the type of reaction indicated. Be sure to write each formula correctly.

- 11) Double replacement:  $\text{Na}_2\text{CrO}_4 + \text{PbCl}_2 \rightarrow 2\text{NaCl} + \text{PbCrO}_4$
- 12) Single replacement:  $\text{Cl}_2 + 2\text{NaBr} \rightarrow 2\text{NaCl} + \text{Br}_2$
- 13) Decomposition:  $\text{Mg(ClO}_3)_2 \rightarrow \text{MgCl}_2 + 3\text{O}_2$
- 14) Synthesis:  $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$
- 15) Double replacement:  $3\text{Ca(OH)}_2 + 2\text{FeCl}_3 \rightarrow 2\text{Fe(OH)}_3 + 3\text{CaCl}_2$
- 16) Single replacement:  $\text{Fe} + \text{Cu(NO}_3)_2 \rightarrow \text{Fe(NO}_3)_2 + \text{Cu}$  [Assume Fe<sup>2+</sup>]
- 17) Decomposition:  $2\text{Hg}_2\text{O} \rightarrow 4\text{Hg} + \text{O}_2$
- 18) Synthesis:  $\text{S} + \text{O}_2 \rightarrow \text{SO}_2$
- 19) Double replacement:  $\text{AgNO}_3 + \text{KI} \rightarrow \text{AgI} + \text{KNO}_3$
- 20) Single replacement:  $\text{Cu} + 2\text{AgNO}_3 \rightarrow 2\text{Ag} + \text{Cu(NO}_3)_2$  [Copper (II) is used here]

# Classifying Chemical Reactions Answer Key

**RJ Alexander**



## Classifying Chemical Reactions Answer Key:

**Decision-Based Learning** Nancy Wentworth, Kenneth J. Plummer, Richard H. Swan, 2021-09-16 In this book you will read stories told by faculty who have redesigned their university courses using the Decision Based Learning pedagogy and the impact this powerful strategy can have on student learning It should be of use to anyone teaching and designing curricula in higher education settings

**CBSE Chemistry Chapterwise Case Study Class 11** Priti Singhal, 2024-11-17 This book is structured to align with the latest syllabus and curriculum guidelines ensuring that the content is both relevant and rigorous Each chapter begins with a clear set of learning objectives providing a roadmap for students to understand what they will achieve by the end of the chapter We have included numerous diagrams illustrations and real life examples to make complex concepts more accessible and engaging

**Holt Chemistry** Holt Rinehart & Winston, 2003-01-24 **Academic Language/Literacy Strategies for Adolescents** Debra L. Cook Hirai, Irene Borrego, Emilio Garza, Carl Kloock, 2013-02-01 Fast paced practical and innovative this text for pre service and in service teachers features clear easily accessible lessons and professional development activities to improve the delivery of academic language literacy education across the content areas in junior middle school and high school classrooms Numerous hands on tools and techniques demonstrate the effectiveness of content area instruction for students in a wide variety of school settings particularly English language learners struggling readers and other special populations of students Based on a strong professional development model the authors have been instrumental in designing Academic Language Literacy Strategies for Adolescents addresses motivation attributes of academic language vocabulary theory and practice reading skills development grammar and writing A wealth of charts graphs and lesson plans give clear examples of academic language literacy strategies in action The appendices a key component of the practical applications developed in the text include a glossary exemplary lessons that address key content areas and a Grammar Handbook In this era of increased accountability coupled with rapid demographic change and challenges to traditional curricula and pedagogical methods educators will find this book to be a great resource

**Focus on Physical Science California Edition** Michael J. Padilla, 2007 *Organic Chemistry Education Research into Practice* Jay Wackerly, Sarah Zingales, Michael Wentzel, Gautam Bhattacharyya, Brett McCollum, 2025-03-25 This Research Topic has three main goals 1 provide a platform for instructors of organic chemistry to showcase evidence based methods and educational theories they have utilized in their classrooms 2 build new and strengthen existing connections between educational researchers and practitioners and 3 highlight how people have used chemical education based research in their teaching practice There are places in the literature dedicated for chemical education research CER however there is not a clear avenue for those that have changed their teaching methods based on published CER and report their experiences Creating this article collection will foster collaboration between chemical education researchers and teachers of organic chemistry This opportunity allows these instructors to share evidence based practices experiences challenges and innovative

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