

UNIT 4: CHEMICAL REACTIONS STUDY GUIDE

Multiple choice:

___**C**___1. Chemical reactions _____.

- a. simply change the form or state of the reactants.
- b. create new atoms.
- c. always produce new substances.
- d. create more matter than what they started with.

___**B**___2. Which of the following is the correct skeleton equation for the combination of solid zinc with liquid bromine to produce solid zinc bromide?

- a. $\text{Zn}_{2(s)} + \text{Br}_{(l)} \rightarrow \text{ZnBr}_{2(s)}$
- b. $\text{Zn}_{(s)} + \text{Br}_{2(l)} \rightarrow \text{ZnBr}_{2(s)}$
- c. $\text{Zn}_{(s)} + \text{Br}_{2(aq)} \rightarrow \text{ZnBr}_{2(s)}$
- d. $\text{ZnBr}_{2(s)} \rightarrow \text{Zn}_{(s)} + \text{Br}_{2(l)}$

___**A**___3. A substance that is needed to speed up a reaction but is not a product or a reactant is known as a _____.

- a. catalyst
- b. coefficient
- c. spectator ion
- d. steroid

___**D**___4. In a combustion reaction, one of the reactants is always _____.

- a. a liquid
- b. water
- c. a metal
- d. oxygen

___**B**___5. Which of the following statements is true about the decomposition of a simple binary compound?

- a. The products cannot be predicted.
- b. The reactant is a single substance.
- c. The reactant must always be a molecular substance.
- d. The product is a single substance.

___**C**___6. The reaction $2\text{P}_2\text{O}_5 \rightarrow 4\text{P} + 5\text{O}_2$ is an example of which type of reaction?

- a. double replacement
- b. single replacement
- c. decomposition
- d. combustion
- e. synthesis

Modeling Chemistry U4 Test A V3 0

E Durkheim



Modeling Chemistry U4 Test A V3 0:

Nuclear Science Abstracts ,1973 *Proceedings* ,1976 Rapporteurs summaries p xxxi cxxxii **The Journal of Physics and Chemistry of Solids** ,1991 **Government Reports Announcements & Index** ,1994-12 *Agronomy Abstracts* ,1981 Includes abstracts of the annual meetings of the American Society of Agronomy Soil Science Society of America Crop Science Society of America of its Agronomic Education Division *Physics Briefs* ,1982 *The Environment Index* ,1987 **Energy Information Abstracts Annual, 1990** ,1990 *Chemistry Unit 4* Jack Anderson,Georgia Anderson,Tyler Clement,Aryan Puri,Rabea Zeynali,2021-05 ThrivEd is a student run not for profit organisation that writes textbooks on the philosophy of writing textbooks that truly empower students Our Unit 4 Chemistry textbook is a 224 page textbook that covers Organic Chemistry and Chemical Synthesis The proceeds from every two books sold are used to produce and donate a third textbook for a student who would benefit from the same support The book is structured in five main sections 1 Bridging the Gap To create the connections needed to set off on the right foot in Year 12 the Bridging the Gap sections are designed to provide in depth teachings of the foundational Year 11 content 2 Main Content By extensively working through concepts with no assumptions and teaching with clear explanations worked examples and real world applications we hope to make each chapter an exciting empowering and well connected experience 3 Topic Test and Exam Notes To guide your preparation of personal notes leading up to assessments sample test and exam notes have been provided to make this process effective and intentional 4 Progressive Repetitive and Advanced Questions Each progressive question is designed to progressively teach each concept and is paired with multiple repetitive questions allowing you to stop and practice anything you like Advanced questions are also there for some extra fun 5 Online Answer Guide With each question comes a three stage answer including a sample response points to note about the question and a WACE inspired marking guide allowing each question to be understood in all its elements These answer guides are free as a downloadable PDFs It is with this structure that the Unit is extensively covered and targeted to provide the greatest possible benefits to students

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