

Chemistry – Unit 7 Review

Chemical Reaction Model

1. Describe key characteristics of all chemical reactions, including the role of energy. Explain how a balanced equation represents these features (include an example).

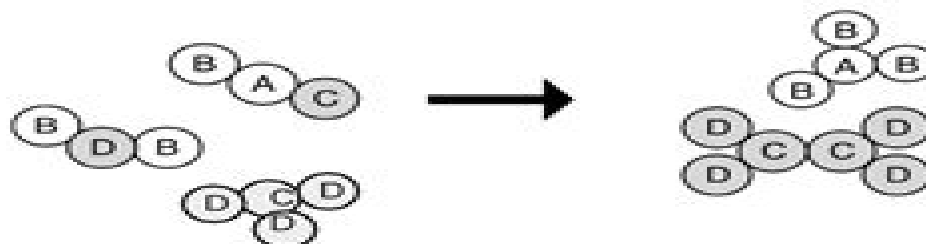
In chemical reactions, atoms of the reactants recombine to form new substances in the products. There is almost always some transfer between the thermal and chemical energy accounts as well as an exchange of thermal energy via heating (Q) between the system and surroundings. The balanced chemical equation represents this process symbolically, showing that the atoms in the products are the same as those in the reactants



Note: there are 4 atoms of H and 2 atoms of O on each side of the equation.

Applying the Model

2. Balance the reaction below by drawing any additional reactant and/or product molecules that would be needed.



Write the **balanced equation** for this reaction.



Which of these molecules would be called reactants?

DB₂, CD₂, and BAC are reactants

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Annelies Wilder-Smith



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Fossil Energy Update ,1983 **Announcement** University of Notre Dame. College of Architecture,1906 **Bulletin** University of Notre Dame,1906 Undergraduate and graduate programs are topics of individual issues yearly 1946

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Government Publications United States. Superintendent of Documents,1994 Deactivation of Heavy Oil
Hydroprocessing Catalysts Jorge Ancheyta,2016-07-25 Written by a scientist and researcher with more than 25 years of experience in the field this serves as a complete guide to catalyst activity loss during the hydroprocessing of heavy oils Explores the physical and chemical properties of heavy oils and hydroprocessing catalysts the mechanisms of catalyst deactivation catalyst characterization by a variety of techniques and reaction conditions laboratory and commercial information for model validations and more Demonstrates how to develop correlations and models for a variety of reaction scales with step by step descriptions and detailed experimental data Contains important implications for increasing operational efficiencies within the petroleum industry An essential reference for professionals and researchers working in the refining industry as well as students taking courses on chemical reaction engineering **Carbon Allotropes:**

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