

FIGURE 6.1
Burning Carbon in the Atomic Level
Illustration by Thomson



1. The chemical reaction starts with just one reactant: a carbon atom and a diatomic oxygen molecule.
2. The oxygen molecule splits apart to make 2 independent oxygen atoms.
3. The carbon then joins with both oxygen atoms, leaving just one product: a carbon dioxide molecule.

This does it here: a chemical reaction proceeds. The molecules must decompose into their constituent atoms, and then the atoms recombine to form the products.

Now we can make the carbon-oxygen equation a little more meaningful by adding some information about the phase of each substance in the equation. For example, when we burn coal, the carbon is in its solid state, the oxygen is in its gaseous state, and the carbon dioxide product is also in its gaseous state. We can add these facts to the equation by putting symbols as a prelude next to each substance:



Whenever you see a small letter enclosed with parentheses in a chemical equation, you know that it is a symbol telling you the phase of the substance. Table 6.1 lists the phase abbreviations used in chemical equations. Chemists do not always use phase symbols in their chemical equations. Sometimes they are there; sometimes they are not. It is always preferable to include them because they provide important information. Don't be confused if you do not see them, though. You need to memorize the abbreviations for the phases in table 6.1.

TABLE 6.1
Phase Symbols

Phase	Symbol
Solid	(s)
Liquid	(l)
Gas	(g)
Aqueous (dissolved in water)	(aq)

It also were as complicated as things get, chemistry would be a breeze. However, things get a little tougher from here. Let's look at another important chemical reaction: the burning of methane (CH₄). Methane is the principal component of natural gas. If you have a gas stove, you want heat, or gas furnace, this chemical reaction occurs quite frequently in your home. Once again, the combustion (burning) of methane releases quite a bit of energy. This energy

Apologia Chemistry Module

Michal Rosen-Zvi



Apologia Chemistry Module :

Apologia Exploring Creation with Chemistry 2nd Edition Lapbook Journal Cyndi Kinney, 2010-06-01 *100 Top Picks for Homeschool Curriculum* Cathy Duffy, 2005 A critical volume for the homeschooling community that helps parents make informed choices regarding learning styles and curriculum **Advanced Chemistry in Creation 2nd Edition Set** Jay Wile, 2010-04-01 Advanced course to be taken after a college preparatory chemistry curriculum text book and solutions manual Second edition **Absolute Beginner's Guide to Home Schooling** Brad Miser, 2005 Absolute beginners guide to homeschooling will help you decide if homeschooling is the best choice for your children's education **Books in Print**, 1981 **Books in Series**, 1985 Vols for 1980 issued in three parts Series Authors and Titles **Comprehensive Dissertation Index**, 1984 Current Index to Journals in Education, 2000-04 **Whitaker's Book List**, 1991
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This book delves into Apologia Chemistry Module . Apologia Chemistry Module is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Apologia Chemistry Module , encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Apologia Chemistry Module
- Chapter 2: Essential Elements of Apologia Chemistry Module
- Chapter 3: Apologia Chemistry Module in Everyday Life
- Chapter 4: Apologia Chemistry Module in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Apologia Chemistry Module . The first chapter will explore what Apologia Chemistry Module is, why Apologia Chemistry Module is vital, and how to effectively learn about Apologia Chemistry Module .

3. In chapter 2, the author will delve into the foundational concepts of Apologia Chemistry Module . The second chapter will elucidate the essential principles that need to be understood to grasp Apologia Chemistry Module in its entirety.

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6. In chapter 5, this book will draw a conclusion about Apologia Chemistry Module . This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Apologia Chemistry Module .

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