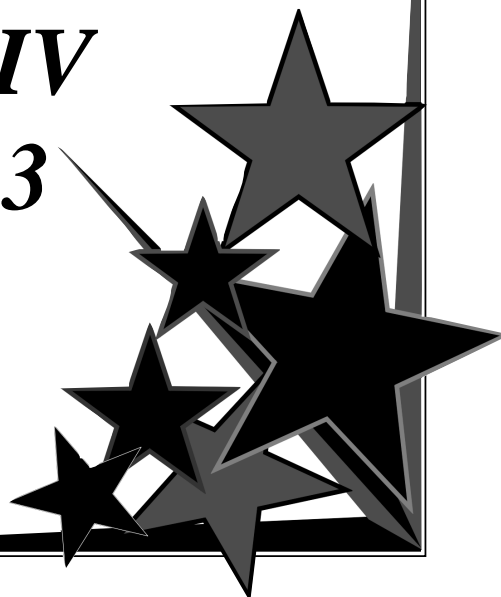


*The People, Places  
and Principles of*

*Integrated  
Physics &  
Chemistry*

*Volume I of IV  
Chapters 1-3*



# *The People, Places and Principles of Integrated Physics & Chemistry*

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**Paradigm Accelerated Curriculum**  
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ISBN: I-928629-18-0  
Volume: I of IV

This text is part of an entire family of books for Integrated Physics & Chemistry; The four texts are:  
*Volume I* (item: 62918), *Volume II* (item: 62919), *Volume III* (item: 62920) and *Volume IV* (item: 62921);  
four corresponding booklets: *Activities*, *Quizzes* and *Tests* (items: 62922, 62923, 62924, 62925);  
and one booklet: *Answer Keys* (item: 62926).

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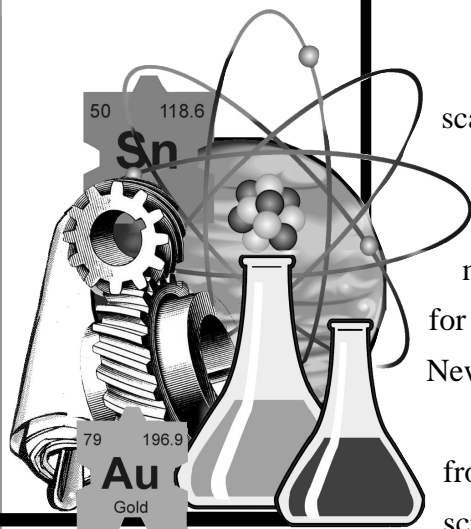
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# *Integrated Physics & Chemistry*

## INTRODUCTION



**T**his course is designed to introduce you to chemistry and physics. Do not allow that to scare or intimidate you. You are going to enjoy this course. It appeals to science scholars and scoffers. The writer, John Hudson Tiner, has taught science and authored more than thirty books on the subject. He is well known for his excellent biographies of famous scientists like Newton, Kepler, Pasteur and Boyles.

This course is a collection of the best science writings from John Hudson Tiner. He has reduced normally complex scientific concepts to clearly understandable terms.

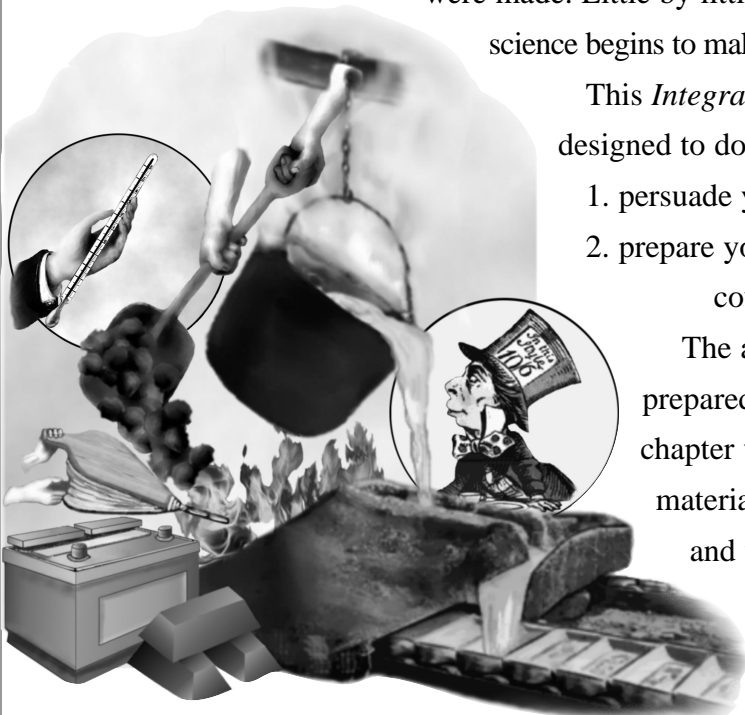
Mr. Tiner’s approach is that of a master storyteller. Each lesson is presented as part of a drama that unravels a great mystery about the development of science and the periodic table of elements. The 180 lessons in this course help you understand how scientists discovered each element and how every discovery became a foundation upon which new discoveries

were made. Little by little the normally complex subject of science begins to make sense and become intriguing.

This *Integrated Physics & Chemistry* course is designed to do two things:

1. persuade you that you really can “do science,”
2. prepare you for future chemistry and physics courses required for graduation.

The activities and quizzes are especially prepared to help you work through each chapter with comfort while understanding the material. Follow the instructions carefully and you will soon discover that you can enjoy learning about science.



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## WHAT AND HOW YOU WILL LEARN FROM THIS COURSE

This course consists of 180 lessons in four volumes. The format is designed for classroom or self-study. You will be able to progress through the four volumes individually or in class groups. The secret to doing well is to read the entire lesson first, then complete the activity questions as you read through the text again.

Each Volume (or unit) is divided into three chapters. Each chapter is further divided into three sections of five lessons each: (Volume I; Chapter 1; Section 1; Lessons 1-5). The course is designed so you will enjoy learning important science concepts. Each lesson can usually be read in a few minutes. You are encouraged to read each lesson completely, then respond to the activity questions which are packaged in a separate booklet labeled: *Activities, Quizzes and Tests*. You may answer the questions directly on each activity page or answer the questions on a separate sheet of notebook paper. Your teacher will inform you of local school policy.

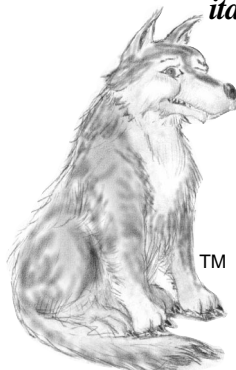
Answers to activities, quizzes, test, mid-course exam and final exam are found in the *Answer Keys*. The keys are divided by chapter and section number. You may be allowed to grade your own answers to activity questions. Your teacher will inform you of local school policy.

A section quiz is provided for you to complete at the end of every 5 lessons. Your teacher will issue a chapter test after you complete all 15 lessons (after the third section quiz). The chapter test is compiled from the three quizzes. Students who fail the quiz may be required to retake the section. Students who score 85% or higher the three section quizzes may not be required to take the chapter test.

Activities, quizzes and chapter tests including a mid-course exam and a final exam are available for each volume in the booklet labeled: *Activities, Quizzes and Tests*. Your school may require that you complete the mid-course and final exams for semester or course credit.

Activity questions identified with an underline will appear on quizzes and tests. Activity questions identified with an asterisk (\*) are essential academic elements which may appear on state exams. Questions on the Life Principles and vocabulary will be included in quizzes and chapter tests. When you turn in your activity questions, you may be required to quote the Life Principles to your teacher.

***Vocabulary words are identified at the beginning of each lesson and are noted in bold, italics type within the text. Vocabulary words will appear on most quizzes.***



Meet ***Max Potential***, PAC curriculum's mascot. Max is an adolescent wolf who will be hanging around to encourage you to reach your maximum potential as you read and work through these pages.

