HERE IS YOUR TEACHER'S RESOURCE KIT FOR BASIC SCIENCE MYSTERIES

This kit includes a CD and *Black Line Masters* for:

1. Tables of Contents for Textbooks
2. Activity Answer Keys
3. Section Quizzes (15)
4. Chapter Tests (5)
5. Quiz Answer Keys
6. Chapter Test Answer Keys

You may reproduce the *Black Line Masters* as needed for your school.

Place the CD and *Black Line Masters* in a three ring notebook for safekeeping.

Make a print copy of the *Activity Answer Keys* and place the copy in a three ring notebook for student access (if you allow students to score/grade daily activities).
Note: Be sure **to exclude** the Quizzes, Tests, and Keys from the three ring notebook which is accessed by **students**; students **should not** have access to Quizzes and Tests, or associated keys, except as assigned under supervision of a teacher for the purposes of measuring achievement.

Make a print copy of the ***WHAT* AND *HOW* STUDENTS WILL LEARN FROM THIS COURSE** and give a copy to each student enrolled in the course.

PAC recommends that you use a 1½" three-ring binder with a clear plastic outer sleeve. Place the full color cover sheet inside the front slip pocket of the three ring notebook.

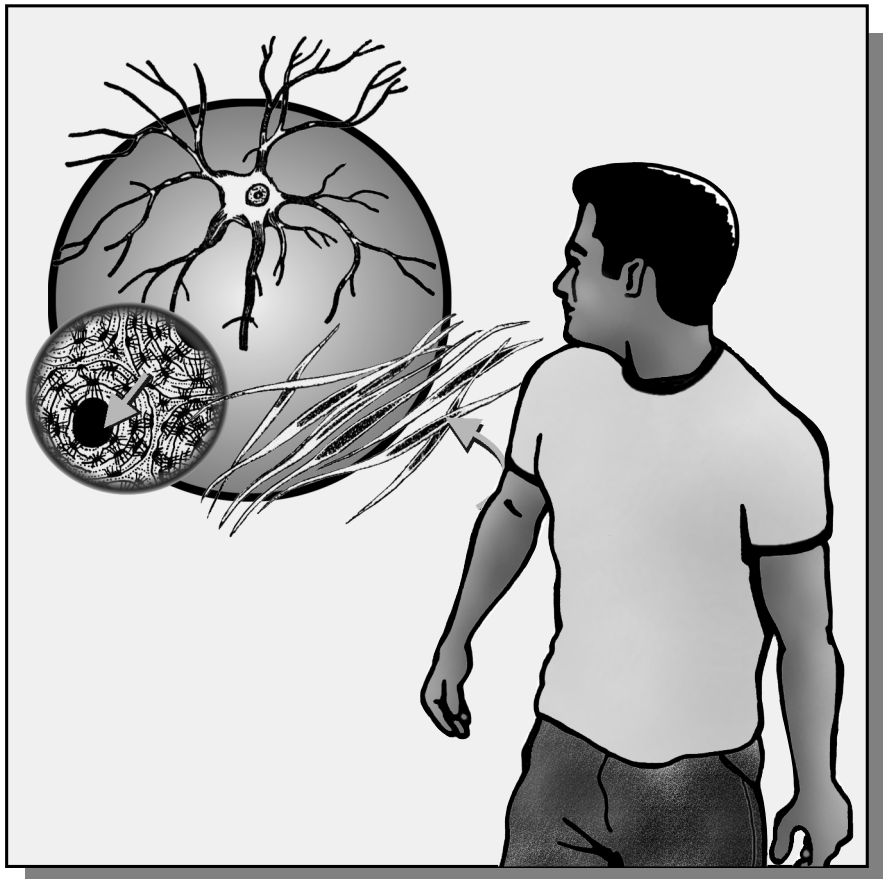
Cut out the spine label from the back sheet and place the spine label in the three ring notebook spine pocket.

©Copyright 2005, Paradigm Accelerated Curriculum

©Copyright 2005, Paradigm Accelerated Curriculum

Basic Science Mysteries

Teacher's Resource Kit



Black Line Masters

BSM 76068

Revision: 061410

©Copyright 2005, Paradigm Accelerated Curriculum

PROFESSIONAL CREDITS

Basic Science Mysteries

Teacher's Resource Kit

Publisher and Managing Editor
Ronald E. Johnson, Ph.D.

Writers
Dennie Lindsey
John Hudson Tiner

Editors
David Browder
Nancy Johnson
Sarah Johnson

Production Manager
H. Michael Young

Page Composition
Randy Burch
Pamela K. Hurst
Kathy L. Dial
Amy Luna
Holly Creacy Williams
H. Michael Young

Graphic Artists
Randy Burch
Pamela K. Hurst
Lydia Johnson
Amy Luna
Michael Tummillo
Holly Creacy Williams
H. Michael Young

Quality Assurance
Nancy Johnson
Sarah Johnson
Lisa Weber
Holly Creacy Williams

©Copyright 2005, Paradigm Accelerated Curriculum

Basic Science Mysteries
Teacher's Resource Kit

Published by
Paradigm Accelerated Curriculum
Early, Texas U.S.A.

All rights reserved.
Contact Paradigm about other courses in
English, Math, Science and Social Studies for grades 8-12.
Training in the Paradigm philosophy
and method is also available.

For information contact:
Paradigm Accelerated Curriculum
P.O. Box 3159 Early, Texas 76802
www.pacworks.com
learn@pacworks.com

Printed in the United States of America.
This publication is protected by copyright.

Permission must be obtained in writing from the publisher prior to any reproduction, storage in a retrieval system, or transmission in any form or by any means electronic, mechanical, photocopying, recording or otherwise..

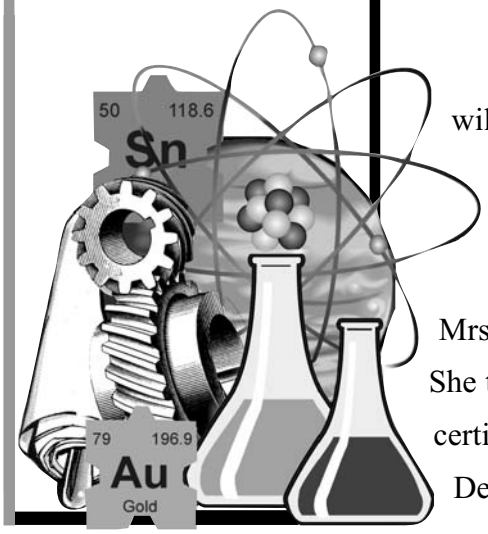
©2003-2005, Paradigm Accelerated Curriculum
Trademark:

PAC ™

ISBN: 1-59476-068-3
Product: 76068

©Copyright 2005, Paradigm Accelerated Curriculum

Basic Science Mysteries
INTRODUCTION



This course is designed to introduce students to BASIC SCIENCE. It is written in a style that will not intimidate or discourage teenagers. They are going to enjoy this course. It appeals to science scholars and scoffers.

The authors are Dennie Lindsey and John Hudson Tiner. Mrs. Lindsey is an award-winning science teacher and author. She taught science in Longview, Texas for five years. She is a certified Texas school counselor. For four years she served as Dean of Women at a College in California. Her expertise as a science teacher was recognized by Dr. Mike Moses, the former Texas Commissioner of Education, who appointed Mrs. Lindsey to the state panel to select science textbooks for Texas public schools.

Mr. Tiner an award-winning writer of more than 50 books and 800 manuscripts. He is is known throughout the United States for his excellent biographies of famous scientists like Newton, Kepler, Pasteur and Boyle. Mr. Tiner taught math and science for twelve years.

John Hudson Tiner and Dennie Lindsey approach writing as master storytellers. Both authors have reduced normally complex science concepts to understandable terms. Each lesson is presented as part of a drama that unravels a great mystery about science and adventures in the lives of teenagers. The 75 lessons in this course help students understand the scientific method and how every major scientific 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.

Basic Science Mysteries is a course designed to do two things:

1. persuade you that you really can "do science,"

2. introduce you to the major disciplines of science.

The activities and quizzes are prepared especially 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.

©Copyright 2005, Paradigm Accelerated Curriculum

WHAT AND *HOW* STUDENTS WILL LEARN FROM THIS COURSE

This course consists of 75 lessons in five chapters. The format is designed for classroom or self-study settings. Students will be able to progress through the course individually or in class groups. The secret to doing well is for students to read the entire lesson first, then complete the activity questions as they read through the text again.

Each Booklet contains one chapter. Each chapter is divided into three sections of five lessons each: (Chapter 1; Section 1; Lessons 1-5). The course is designed so students will enjoy learning learning science. Each lesson can usually be read in a few minutes. Students are encouraged to read each lesson completely, then respond to the activity questions which are packaged in a separate booklet labeled: *Activities*. Students may answer the questions directly on each activity page or answer the questions on a separate sheet of notebook paper. The teacher will inform students of local school policy.

Activity questions identified with an underlined number (*example:* 17.) will appear on quizzes and may appear on chapter tests. Questions on the Life Principles and vocabulary will be included in quizzes and chapter tests. When students turn in their activity questions, they may be required to quote the Life Principles to the teacher.

A section quiz is provided for students to complete at the end of every 5 lessons. The teacher will issue a chapter test after students 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 work the lessons from that section again. Students who score 85% or higher on the three section quizzes may not be required to take the chapter test; this is at the discretion of the teacher.

Answers to activities, quizzes and tests are found in this *Teacher's Resource Kit.* The activities keys are divided by chapter and section number. Students may be allowed to grade their own answers to activity questions. The teacher will inform students of local school policy.

If the teacher requires additional comprehensive exams, questions may be compiled from the chapter tests of this course.

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 your students to reach their maximum potential as they read and work through their lessons.

©Copyright 2005, Paradigm Accelerated Curriculum



©Copyright 2005, Paradigm Accelerated Curriculum

Teacher's Resource Kit
Table of Contents

Introduction to the Course iv
What and How You Will Learn from this Course v

Tables of Contents for Texts

Chapter One 3
Chapter Two 5
Chapter Three 7
Chapter Four 9
Chapter Five 11

Activity Answer Keys

Chapter One
Section 1 15
Section 2 17
Section 3 19
Chapter Two
Section 1 21
Section 2 25
Section 3 29
Chapter Three
Section 1 33
Section 2 37
Section 3 41
Chapter Four
Section 1 45
Section 2 49
Section 3 51
Chapter Five
Section 1 55
Section 2 57
Section 3 59

Quizzes

Chapter One
Section 1 65
Section 2 69
Section 3 73
Chapter Two
Section 1 77
Section 2 81
Section 3 85

©Copyright 2005, Paradigm Accelerated Curriculum

Chapter Three
Section 1 89
Section 2 93
Section 3 97
Chapter Four
Section 1 101
Section 2 107
Section 3 111
Chapter Five
Section 1 115
Section 2 121
Section 3 127

Tests

Chapter One 135
Chapter Two 139
Chapter Three 143
Chapter Four 147
Chapter Five 151

Quiz Answer Keys

Chapter One
Section 1 159
Section 2 161
Section 3 163
Chapter Two
Section 1 165
Section 2 167
Section 3 169
Chapter Three
Section 1 171
Section 2 173
Section 3 175
Chapter Four
Section 1 177
Section 2 179
Section 3 181
Chapter Five
Section 1 183
Section 2 185
Section 3 187

©Copyright 2005, Paradigm Accelerated Curriculum

Test Answer Keys

Chapter One 191
Chapter Two 193
Chapter Three 195
Chapter Four 197
Chapter Five 199

Forms 201

©Copyright 2005, Paradigm Accelerated Curriculum