

# Contents

Welcome to <i>God's Design for Chemistry</i> .....	i
Why Teach Chemistry? .....	ii
How Do I Teach Science? .....	iii
How Do I Teach Creation vs. Evolution? .....	v
Lesson 1      Introduction to Chemistry .....	1
Lesson 2      The Scientific Method .....	3
Lesson 3      Tools of Science .....	8
Special Feature: Lord Kelvin.....	12
Lesson 4      The Metric System .....	14
<b>Introduction to Chemistry Quiz</b> .....	18
Lesson 5      Mass versus Weight .....	19
Lesson 6      Conservation of Mass .....	22
Lesson 7      Volume .....	25
Lesson 8      Density .....	28
Lesson 9      Buoyancy.....	31
Special Feature: James Clerk Maxwell .....	34
<b>Measurement of Matter Quiz</b> .....	35
Lesson 10     Physical and Chemical Properties .....	36
Lesson 11     States of Matter.....	39
Lesson 12     Solids.....	42
Lesson 13     Liquids .....	45
Lesson 14     Gases .....	48
Lesson 15     Gas Laws .....	51
Special Feature: Robert Boyle .....	54
<b>States of Matter Quiz</b> .....	55
Lesson 16     Elements .....	56
Special Feature: William Prout .....	59
Lesson 17     Compounds.....	61
Lesson 18     Water .....	64
Lesson 19     Mixtures .....	68
Lesson 20     Milk and Cream .....	71
<b>Classification of Matter Quiz</b> .....	74

Lesson 21	Solutions.....	75
Lesson 22	Suspensions .....	79
Lesson 23	Solubility .....	82
Lesson 24	Soda Pop .....	85
Lesson 25	Concentration .....	89
Lesson 26	Seawater .....	92
	Special Feature: Desalination of Water .....	94
Lesson 27	Water Treatment .....	95
	<b>Solutions Quiz</b> .....	98
Lesson 28	Food Chemistry .....	99
Lesson 29	Chemical Analysis of Food .....	102
Lesson 30	Flavors .....	105
	Special Feature: Chocolate and Vanilla .....	108
Lesson 31	Additives .....	110
Lesson 32	Bread .....	113
	Special Feature: Bread Through the Centuries .....	116
	<b>Food Chemistry Quiz</b> .....	118
Lesson 33	Identification of Unknown Substances - <b>Unit Project</b> .....	119
	<b>Properties of Matter Unit Test</b> .....	124
Lesson 34	Conclusion .....	126
Appendix A	– Answers to Quizzes and Test .....	128
Appendix B	– Resource Guide .....	130
Appendix C	– Master Supply List .....	131
Appendix D	– List of Reproducible Pages .....	132
Index	.....	133
Works Cited	.....	134