



LIFE·PAC®

Science



Alpha Omega Publications®

# Science 100

## Teacher's Guide Part 1

### CONTENTS

Curriculum Overview .....	3
LIFEPAC® Management .....	11
Teacher Notes .....	25
Science 101 .....	29
Science 102 .....	69
Science 103 .....	113
Science 104 .....	151
Science 105 .....	193
Worksheets .....	237
Alternate Tests .....	327

**Author:**  
Revision Editor:

**Phyllis A. MacDonald, M.Ed.**  
Alan Christopherson, M.S.



Alpha Omega Publications®

804 N. 2nd Ave. E., Rock Rapids, IA 51246-1759

© MCMXCVI by Alpha Omega Publications, Inc. All rights reserved. LIFEPAC, Doc Dickory, Dewey Decimole, Revver, Rikki, and Vicky Dickory are registered trademarks or trademarks of Alpha Omega Publications, Inc. pending registration in the United States Patent and Trademark Office. All rights reserved.

All trademarks and/or service marks referenced in this material are the property of their respective owners. Alpha Omega Publications, Inc. makes no claim of ownership to any trademarks and/or service marks other than their own and their affiliates', and makes no claim of affiliation to any companies whose trademarks may be listed in this material, other than their own.



O

V

E

R

V

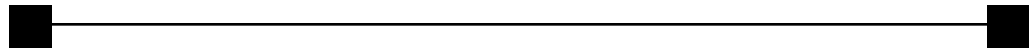
I

E

W



# SCIENCE



## Curriculum Overview Grades 1–12

	Grade 1	Grade 2	Grade 3
LIFEPAK 1	<b>YOU LEARN WITH YOUR EYES</b> <ul style="list-style-type: none"> <li>Name and group some colors</li> <li>Name and group some shapes</li> <li>Name and group some sizes</li> <li>Help from what you see</li> </ul>	<b>THE LIVING AND NONLIVING</b> <ul style="list-style-type: none"> <li>What God created</li> <li>Rock and seed experiment</li> <li>God-made objects</li> <li>Man-made objects</li> </ul>	<b>YOU GROW AND CHANGE</b> <ul style="list-style-type: none"> <li>Air we breathe</li> <li>Food for the body</li> <li>Exercise and rest</li> <li>You are different</li> </ul>
LIFEPAK 2	<b>YOU LEARN WITH YOUR EARS</b> <ul style="list-style-type: none"> <li>Sounds of nature and people</li> <li>How sound moves</li> <li>Sound with your voice</li> <li>You make music</li> </ul>	<b>PLANTS</b> <ul style="list-style-type: none"> <li>How are plants alike</li> <li>Habitats of plants</li> <li>Growth of plants</li> <li>What plants need</li> </ul>	<b>PLANTS</b> <ul style="list-style-type: none"> <li>Plant parts</li> <li>Plant growth</li> <li>Seeds and bulbs</li> <li>Stems and roots</li> </ul>
LIFEPAK 3	<b>MORE ABOUT YOUR SENSES</b> <ul style="list-style-type: none"> <li>Sense of smell</li> <li>Sense of taste</li> <li>Sense of touch</li> <li>Learning with my senses</li> </ul>	<b>ANIMALS</b> <ul style="list-style-type: none"> <li>How are animals alike</li> <li>How are animals different</li> <li>What animals need</li> <li>Noah and the ark</li> </ul>	<b>ANIMAL GROWTH AND CHANGE</b> <ul style="list-style-type: none"> <li>The environment changes</li> <li>Animals are different</li> <li>How animals grow</li> <li>How animals change</li> </ul>
LIFEPAK 4	<b>ANIMALS</b> <ul style="list-style-type: none"> <li>What animals eat</li> <li>Animals for food</li> <li>Animals for work</li> <li>Pets to care for</li> </ul>	<b>YOU</b> <ul style="list-style-type: none"> <li>How are people alike</li> <li>How are you different</li> <li>Your family</li> <li>Your health</li> </ul>	<b>YOU ARE WHAT YOU EAT</b> <ul style="list-style-type: none"> <li>Food helps your body</li> <li>Junk foods</li> <li>Food groups</li> <li>Good health habits</li> </ul>
LIFEPAK 5	<b>PLANTS</b> <ul style="list-style-type: none"> <li>Big and small plants</li> <li>Special plants</li> <li>Plants for food</li> <li>House plants</li> </ul>	<b>PET AND PLANT CARE</b> <ul style="list-style-type: none"> <li>Learning about pets</li> <li>Caring for pets</li> <li>Learning about plants</li> <li>Caring for plants</li> </ul>	<b>PROPERTIES OF MATTER</b> <ul style="list-style-type: none"> <li>Robert Boyle</li> <li>States of matter</li> <li>Physical changes</li> <li>Chemical changes</li> </ul>
LIFEPAK 6	<b>GROWING UP HEALTHY</b> <ul style="list-style-type: none"> <li>How plants and animals grow</li> <li>How your body grows</li> <li>Eating and sleeping</li> <li>Exercising</li> </ul>	<b>YOUR FIVE SENSES</b> <ul style="list-style-type: none"> <li>Your eye</li> <li>You can smell and hear</li> <li>Your taste</li> <li>You can feel</li> </ul>	<b>SOUNDS AND YOU</b> <ul style="list-style-type: none"> <li>Making sounds</li> <li>Different sounds</li> <li>How sounds move</li> <li>How sounds are heard</li> </ul>
LIFEPAK 7	<b>GOD'S BEAUTIFUL WORLD</b> <ul style="list-style-type: none"> <li>Types of land</li> <li>Water places</li> <li>The weather</li> <li>Seasons</li> </ul>	<b>PHYSICAL PROPERTIES</b> <ul style="list-style-type: none"> <li>Colors</li> <li>Shapes</li> <li>Sizes</li> <li>How things feel</li> </ul>	<b>TIMES AND SEASONS</b> <ul style="list-style-type: none"> <li>The earth rotates</li> <li>The earth revolves</li> <li>Time changes</li> <li>Seasons change</li> </ul>
LIFEPAK 8	<b>ALL ABOUT ENERGY</b> <ul style="list-style-type: none"> <li>God gives energy</li> <li>We use energy</li> <li>Ways to make energy</li> <li>Ways to save energy</li> </ul>	<b>OUR NEIGHBORHOOD</b> <ul style="list-style-type: none"> <li>Things not living</li> <li>Things living</li> <li>Harm to our world</li> <li>Caring for our world</li> </ul>	<b>ROCKS AND THEIR CHANGES</b> <ul style="list-style-type: none"> <li>Forming rocks</li> <li>Changing rocks</li> <li>Rocks for buildings</li> <li>Rock collecting</li> </ul>
LIFEPAK 9	<b>MACHINES AROUND YOU</b> <ul style="list-style-type: none"> <li>Simple levers</li> <li>Simple wheels</li> <li>Inclined planes</li> <li>Using machines</li> </ul>	<b>CHANGES IN OUR WORLD</b> <ul style="list-style-type: none"> <li>Seasons</li> <li>Change in plants</li> <li>God's love never changes</li> <li>God's Word never changes</li> </ul>	<b>HEAT ENERGY</b> <ul style="list-style-type: none"> <li>Sources of heat</li> <li>Heat energy</li> <li>Moving heat</li> <li>Benefits and problems of heat</li> </ul>
LIFEPAK 10	<b>WONDERFUL WORLD OF SCIENCE</b> <ul style="list-style-type: none"> <li>Using your senses</li> <li>Using your mind</li> <li>You love yourself</li> <li>You love the world</li> </ul>	<b>LOOKING AT OUR WORLD</b> <ul style="list-style-type: none"> <li>Living things</li> <li>Nonliving things</li> <li>Caring for our world</li> <li>Caring for ourselves</li> </ul>	<b>PHYSICAL CHANGES</b> <ul style="list-style-type: none"> <li>Change in man</li> <li>Change in plants</li> <li>Matter and time</li> <li>Sound and energy</li> </ul>