Table of Contents

| | | VALO TUDIO DI TUEID | |
|----------|---|---|---|
| Unit 1 - | L | VING THINGS IN THEIR | ENVIRONMENT |
| Lesson | 1 2 3 4 5 6 7 8 9 10 11 12 | What Are Living Things? How Do Scientists Study Living Things? Ready for More Scientific Thinking? What is an Ecosystem? How Are Materials Cycled in Nature? What Is a Food Chain? What Is a Food Web? What Is A Biomass Pyramid? What Is A Succession? What Is a Biome? What Are Habitats and Niches? How Do We Protect Our Home? Review What You Know Careers in Life Science | 1 4 9 12 14 16 18 20 22 24 28 30 33 37 |
| Unit 2 - | Н | OW LIVING THINGS ARE | ORGANIZED |
| Lesson | 1 2 3 4 5 6 7 | What Units Make Up Living Things? What Are the Jobs of a Cell's Parts? How Do Cells Work Together? How Are Living Things Grouped? What Are the Simplest Living Things? What Are the Main Groups of Plants? What Are the Main Groups of Animals? Review What You Know Careers in Life Science | 39 42 44 46 49 52 54 60 63 |
| Unit 3 - | F | OOD FOR LIFE | |
| Lesson | 2 3 4 5 6 7 8 | What Chemicals Make Up Living Things? How Do Green Cells Make Food? How Do Living Things Get Energy? What Are the Parts of Plants? What Foods Give Us Energy? Why Do We Need Vitamins and Minerals? What Are Calories? How Can You Balance Your Diet? Review What You Know Summing Up | 65 68 71 74 78 82 87 90 93 95 |

Summing Up

Unit 4 -**DIGESTION AND TRANSPORT** What is the Job of Your Digestive System? 97 Lesson 2 How Does Digestion Begin? 100 3 How Does Digestion End? 102 What Happens After Food Is Digested? 4 104 What Is the Work of the Blood? 5 106 6 What Is the Job of Your Transport System? 108 7 What is the Path of Your Blood? 112 **Review What You Know** 116 Careers in Life Science 119 Unit 5 - BREATHING AND MOVEMENT What Is the Job of Your Respiratory System? 121 Lesson 1 2 What Happens When You Breathe? 124 3 How Does Your Body Get Rid of Wastes? 126 4 What Is Your Body's Framework? 130 How Do Your Muscles Work? 134 **Review What You Know** 138 Summing Up 141 Unit 6 -**BEHAVIOR AND CONTROL** Why Do Living Things Act as They Do? 143 Lesson How Does Your Body Receive Messages? 2 146 3 What Is the Job of Your Nervous System? 149 4 What Are the Jobs of Your Brain? 153 5 How Do You Learn New Behavior? 155 What Are Chemical Messengers? 159 163 How to "power up" the brain / Sleep! **Review What You Know** 164 Careers in Life Science 167 Unit 7 -REPRODUCTION IN SIMPLE ORGANISMS **AND PLANTS** Lesson How Do Living Things Reproduce? 169 2 How Do Molds Reproduce? 172 3 How Do Animals Grow Back Lost Parts? 174

How Do Plants Reproduce Asexually?

What Is the Work of a Flower?

What Are Seeds and Fruits?

Review What You Know

Summing Up

4

5

176

180

184

188

191

Unit 8 - REPRODUCTION IN HIGHER ANIMALS

| Lesson | 1 | How Do Animals Reproduce Sexually? | 193 |
|--------|---|---|-----|
| | 2 | How Do Fish Reproduce? | 196 |
| | 3 | How Do Amphibians and Reptiles Reproduce? | 200 |
| | 4 | How Do Birds Reproduce? | 204 |
| | 5 | How Do Mammals Reproduce? | 207 |
| | 6 | How Do Insects Reproduce? | 210 |
| | | Review What You Know | 214 |
| | | Careers in Life Science | 217 |

Unit 9 - HEREDITY AND CHANGE THROUGH TIME

| Lesson | 1 | How Do Parents Pass Traits to Offspring? | 219 |
|--------|----|---|-----|
| | 2 | What Happens When Cells Divide? | 223 |
| | 3 | How Does DNA Make Proteins? | 228 |
| | 4 | What Are Dominant and Recessive Genes? | 234 |
| | 5 | Can Heredity Be Predicted? | 238 |
| | 6 | How Is Gender Inherited? | 244 |
| | 7 | What Are Genetic Disorders? | 249 |
| | 8 | What Is Evolution by Natural Selection? | 253 |
| | 9 | Are Fossils Evidence of Evolution? | 256 |
| | 10 | What Other Evidence is There for Evolution? | 259 |
| | | Review What You Know | 262 |
| | | Summing Up | 265 |

Unit 10 - PROTECTING HEALTH

| Lesson | 1 | What Are Infectious Diseases? | 267 |
|--------|---|------------------------------------|-----|
| | 2 | How Does the Body Fight Infection? | 272 |
| | 3 | What Is Heart Disease? | 277 |
| | 4 | What Is Cancer? | 281 |
| | 5 | What Is Drug Abuse? | 285 |
| | | Review What You Know | 288 |
| | | Summing Up | 290 |
| | | Careers in Life Science | 292 |
| | | Glossary | 293 |
| | | Credits | 302 |
| | | Index | 303 |