

TABLE OF CONTENTS

Chapter 1	Introduction to Biology Laboratory	1
Chapter 2	Microscopes and Their Use	7
Chapter 3	Molecules of Living Things	17
Chapter 4	Enzymes	29
Chapter 5	Osmosis and Diffusion	37
Chapter 6	Cell Internal Structure	47
Chapter 7	Fermentation and Cellular Respiration	57
Chapter 8	Photosynthesis	67
Chapter 9	Mitosis and Meiosis	79
Chapter 10	Mendelian Genetics	93
Chapter 11	Genetic Engineering	107
Chapter 12	Human Genetics	113
Chapter 13	Animal Reproduction and Development	123
Chapter 14	Kingdom Monera—The Bacteria	141
Chapter 15	Kingdom Protista	153
Chapter 16	Kingdom Fungi	167
Chapter 17	Plants	179
Chapter 18	Animals	203
	I. Primitive Invertebrates	204
	II. Protostomes: Advanced Invertebrates	214
	III. Deuterostomes: Echinoderms and Chordate Animals	226
Chapter 19	Plant Architecture	243
Chapter 20	Plant Reproduction and Growth	259
Chapter 21	Water Movement and Hormones in Plants	277
Chapter 22	Vertebrate Anatomy	295
Chapter 23	Evolution and Population Genetics	325
Chapter 24	Ecosystems and the Biosphere	341
Chapter 25	Animal Behavior	349