

contents overview

CHAPTER 1	AN INTRODUCTION TO BIOLOGY	2
CHAPTER 2	SOME BASIC CHEMICAL PRINCIPLES	24
CHAPTER 3	LIFE: THE ESSENTIAL MATERIALS	46
CHAPTER 4	ENERGY AND LIFE	72
CHAPTER 5	CELLS AND CELLULAR ACTIVITY	82
CHAPTER 6	THE ESSENTIAL PROCESSES: PHOTOSYNTHESIS, GLYCOLYSIS, AND CELLULAR RESPIRATION	116
CHAPTER 7	DIVIDING CELLS: MITOSIS AND MEIOSIS	142
CHAPTER 8	THE BASIS OF HEREDITY	170
CHAPTER 9	VIRUSES: KINGDOMS MONERA, PROTISTA, AND FUNGI	200
CHAPTER 10	BIOLOGY OF PLANTS	248
CHAPTER 11	BIOLOGY OF ANIMALS	294
CHAPTER 12	GENERAL ECOLOGY	376
CHAPTER 13	ORIGINS AND EVOLUTION	420
CHAPTER 14	THE NERVOUS SYSTEM	460
CHAPTER 15	SKIN, SKELETON, AND MUSCLES	498
CHAPTER 16	RESPIRATION	524
CHAPTER 17	CIRCULATION AND IMMUNITY	544
CHAPTER 18	DIGESTION AND EXCRETION	584
CHAPTER 19	THE ENDOCRINE SYSTEM	620
CHAPTER 20	REPRODUCTION	648
CHAPTER 21	DEVELOPMENT	676
CHAPTER 22	ANIMAL BEHAVIOR	704