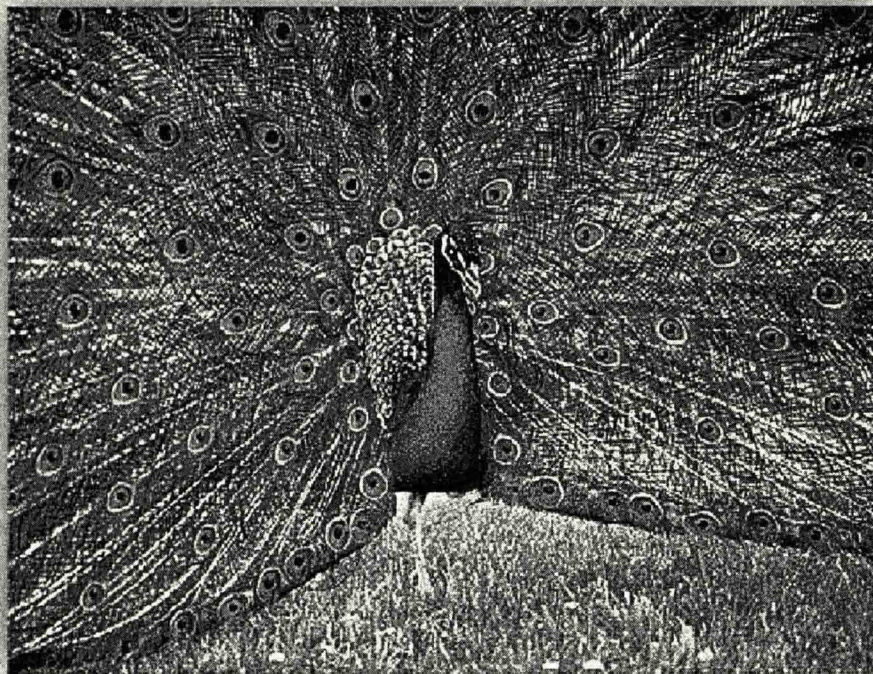


student study
ART NOTEBOOK



FIFTH EDITION

BIOLOGY



Sylvia S. Mader

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FIFTH EDITION

BIOLOGY

Sylvia S. Mader



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Chapter 2

Scientific Method Figure 2.1

1

Chapter 3

Helium Atom Figure 3.2

1

Electron Energy Levels Figure 3.4

1

Electron Orbitals Figure 3.5

2

Bohr Models of Atoms Figure 3.6

2

Ionic Reaction Figure 3.7a

3

Covalent Bonding Figure 3.9

4

Water Molecule Figure 3.10

5

pH Scale Figure 3.14

6

Chapter 4

Synthesis and Breakdown of Polymers
Figure 4.4

6

Disaccharide Formation and Breakdown
Figure 4.6

7

Starch Structure Figure 4.7a

8

Glycogen Structure Figure 4.7b

8

Fatty Acid Structure Figure 4.9

9

Formation of a Neutral Fat Figure 4.10

9

Phospholipid Structure Figure 4.12

10

Synthesis of a Peptide Figure 4.14

10

Representative Amino Acids Figure 4.15

11

Levels of Protein Structure Figure 4.18

12

DNA Structure Figure 4.19

13

ATP Reaction Figure 4.20

14

Chapter 5

Prokaryotic Cell Anatomy Figure 5.3

15

Animal Cell Anatomy Figure 5.4a

16

Plant Cell Anatomy Figure 5.5a

17

Anatomy of the Nucleus Figure 5.6

18

Rough Endoplasmic Reticulum
Figure 5.7b, c, d

18

Golgi Apparatus Figure 5.8b

19

Centrioles Figure 5.14

19

Chapter 6

Fluid-Mosaic Model of Plasma

20

Membrane Figure 6.3

21

Membrane Protein Diversity Figure 6.5

22

Process of Diffusion Figure 6.6

22

Osmosis Demonstration Figure 6.8

22

Osmosis in Animal and Plant Cells

23

Figure 6.9

Facilitated Transport Figure 6.10

24

Sodium-Potassium Pump Figure 6.11

25

Three Methods of Endocytosis

26

Figure 6.12

Receptor-Mediated Endocytosis

27

Figure 6.13

Chapter 7

Loss of Useful Energy in Ecosystem

28

Figure 7.2

Energy of Activation Figure 7.3

29

Enzymatic Action Figure 7.4a

30

Rate of Enzymatic Reaction Figure 7.5

30

Feedback Inhibition Figure 7.6

31

Electron Transport System Figure 7.7

32

Metabolic Reactions Figure 7.8

32

ATP Cycle Figure 7.9

33

Chemiosmotic ATP Synthesis Figure 7.10

33

Chapter 8

Chloroplast Structure and Function

34

Figure 8.3

Cyclic Electron Pathway Figure 8.5

35

Noncyclic Electron Pathway Figure 8.6

36

Organization of the Chloroplast and

Thylakoid Figure 8.7

37

Light-Independent Reactions

(Calvin Cycle) Figure 8.9

38

Chapter 9

Respiration/Photosynthesis Relationship

39

Figure 9.1b

Cellular Respiration Overview Figure 9.2

40

Aerobic Respiration in the Body

41

Figure 9.3

Glycolysis Figure 9.4

42

Fermentation Figure 9.5

43

Mitochondrion Structure and Function

44

Figure 9.6

Krebs Cycle Figure 9.7

45

Electron Transport System Figure 9.8

46

Organization of Cristae Figure 9.9

47

Summary of Glucose Breakdown		
Figure 9.10	48	
Metabolic Pool Concept	49	
Chapter 10		
Cell Cycle	50	
Control of Cell Cycle	51	
Prophase (Animal Cell)	52	
Metaphase (Animal Cell)	52	
Anaphase (Animal Cell)	53	
Telophase (Animal Cell)	53	
Plant Cell Mitosis	54	
Binary Fission	55	
Chapter 11		
Overview of Meiosis	56	
Crossing-Over During Meiosis I	57	
Figure 11.3	58	
Meiosis I (Animal Cell)	59	
Meiosis II (Animal Cell)	60	
Comparison of Meiosis and Mitosis	61	
Figure 11.7	62	
Spermatogenesis and Oogenesis in Mammals	63	
Figure 11.8	64	
Chapter 12		
Monohybrid Cross	65	
Dihybrid Cross	66	
Mendel's Law of Independent Assortment	67	
Figure 12.8	68	
Dihybrid Testcross	69	
Figure 12.9	70	
Chapter 13		
Incomplete Dominance	71	
Polygenic Inheritance	71	
<i>Drosophila</i> Cross	72	
Complete v. Incomplete Linkage	73	
Figure 13.7	74	
Chromosome Mutations	75	
Figure 13.10	76	
Chapter 14		
Nondisjunction	77	
Autosomal Dominant Disorder Pedigree Chart	78	
Figure 14.6a	79	
Autosomal Recessive Disorder Pedigree Chart	80	
Figure 14.7a	81	
X-linked Recessive Disorder Pedigree Chart	82	
Figure 14.13a	83	
Chapter 15		
Griffith's Transformation Experiment	84	
Figure 15.1	85	
Hershey and Chase Experiment	86	
Figure 15.3	87	
Nucleotide Composition of DNA	88	
Figure 15.4	89	
Watson and Crick Model of DNA	90	
Figure 15.6	91	
Semiconservative Replication	92	
Figure 15.7	93	
DNA Replication (In Depth)	94	
Figure 15a	95	
Chapter 16		
RNA Structure	96	
Figure 16.3	97	
Transcription of DNA	98	
Figure 16.5	99	
mRNA Processing in Eukaryotes	100	
Figure 16.7	101	
Structure of tRNA Molecule	102	
Figure 16.9	103	
Translation	104	
Figure 16.10	105	
Protein Synthesis	106	
Figure 16.11	107	
Chapter 17		
<i>Lac</i> Operon	108	
Figure 17.1	109	
Levels of Control of Gene Expression	110	
Figure 17.2	111	
Transcription Factors	112	
Figure 17.6	113	
Alternative Splicing of mRNA Transcripts	114	
Figure 17.7	115	
Posttranslational Control	116	
Figure 17.8	117	
Regulatory Pathway/ <i>ras</i> Protein	118	
Figure 17.11	119	
Chapter 18		
Gene Cloning Using Bacteria and Viruses	120	
Figure 18.1	121	
Cloning of a Human Gene	122	
Figure 18.2	123	
Ex vivo Gene Therapy In Humans	124	
Figure 18.8	125	
Chapter 19		
Homologous Vertebrate Limbs	126	
Figure 19.15	127	
Chick Embryo vs. Pig Embryo	128	
Figure 19.16	129	
Chapter 20		
Stabilizing Selection	130	
Figure 20.6	131	
Allopatric Speciation	132	
Figure 20.11a	133	
Sympatric Speciation	134	
Figure 20.11b	135	
Chapter 21		
Chemical Evolution Diagram	136	
Figure 21.4	137	
History of Earth Using a 24-hour Time Scale	138	
Figure 21.5	139	
Phyletic & Punctuated Gradualism Diagrams	140	
Figure 21.18	141	
Chapter 22		
Primate Evolutionary Tree	142	
Figure 22.3	143	
Hominoid Evolutionary Tree	144	
Figure 22.9	145	
Chapter 23		
Five-Kingdom System of Classification	146	
Figure 23.6	147	
Classification and Phylogeny	148	
Figure 23.8	149	
Traditional vs. Cladistic View of Phylogeny	150	
Figure 23.11	151	
Chapter 24		
Lytic vs. Lysogenic Cycles	152	
Figure 24.3	153	
Reproduction of a Retrovirus	154	
Figure 24.4	155	
Bacterium Structure	156	
Figure 24.6	157	
Diversity of Bacteria	158	
Figure 24.9	159	

Chapter 25		
Eukaryotic Cell Evolution Figure 25.1	105	
Structure and Life Cycle of <i>Chlamydomonas</i> Figure 25.2	106	
<i>Spirogyra</i> Anatomy Figure 25.4	107	
<i>Ulva</i> Life Cycle Figure 25.5	108	
<i>Euglena</i> Anatomy Figure 25.8	109	
<i>Amoeba</i> Anatomy Figure 25.10a	109	
<i>Paramecium</i> Anatomy Figure 25.11c	110	
Life Cycle of <i>Plasmodium Vivax</i> Figure 25.13	111	
Life Cycle Comparisons Figure 25A,B,C	112	
Slime Mold Life Cycle Figure 25.14	113	
Chapter 26		
<i>Rhizopus Stolonifer</i> Life Cycle Figure 26.3	114	
Mushroom Life Cycle Figure 26.7a	115	
Chapter 27		
Evolution of the Major Groups of Plants Figure 27.1	116	
Moss Life Cycle Figure 27.3	117	
Fern Life Cycle Figure 27.9	118	
Pine Life Cycle Figure 27.10	119	
Flowering Plant Life Cycle Figure 27.13	120	
Chapter 28		
Phylogenetic Tree of Animal Kingdom Figure 28.2	121	
Sponge Anatomy Figure 28.3	122	
Body Plan and Anatomy of <i>Hydra</i> Figure 28.6	123	
<i>Obelia</i> Structure and Life Cycle Figure 28.7	124	
Planarian Anatomy Figure 28.9b,c	125	
Life Cycle of a Tapeworm Figure 28.11	126	
Acoelom, Pseudocoelom, True Coelom Comparison Figure 28a	127	
Roundworm Anatomy Figure 28.12	128	
Chapter 29		
Protostomes vs. Deuterostomes Figure 29.1	129	
Anatomy of a Clam Figure 29.3	130	
Earthworm Anatomy Figure 29.7a	131	
Grasshopper Anatomy Figure 29.14	132	
Chapter 30		
Seastar Anatomy Figure 30.1a	133	
Lancelet Anatomy Figure 30.4b	134	
Phylogenetic Tree of Deuterostomes Figure 30.5	135	
Primitive Amphibian/Lobe-Finned Fish Comparison Figure 30.9	136	
Vertebrate Circulatory Systems Figure 30.10	136	
Reptilian Egg Figure 30.12b	137	
Phylogenetic Tree of Reptiles, Birds, Mammals Figure 30.13	138	
Anatomy of a Bird Figure 30.15a	139	
Chapter 31		
Monocots v. Dicots Figure 31.3	140	
Xylem Structure Figure 31.6a	140	
Phloem Structure Figure 31.7a	141	
Dicot Herbaceous Root Tip Figure 31.8a	142	
Dicot Stem Anatomy Figure 31.13b	143	
Monocot Stem Anatomy Figure 31.14b,c	144	
Dicot Woody Stem Figure 31.15a	144	
Leaf Structure Figure 31.18	145	
Chapter 32		
Plants Transport System Figure 32.1	146	
Cohesion-Tension Model of Xylem Transport Figure 32.5	147	
Transport of Minerals Across Plasma Membrane Figure 32.8	148	
Pressure-Flow Model of Phloem Transport Figure 32.12	149	
Chapter 33		
Auxin Mode of Action Figure 33.8	150	
Gibberellin Mode of Action Figure 33.10	151	
Photoperiodism Figure 33.14	152	
Phytochrome Conversion Cycle Figure 33.15	152	
Chapter 34		
Alternation of Generations in Flowering Plant Figure 34.1	153	
Parts of a Typical Flower Figure 34.2	154	
Life Cycle of Flowering Plant Diagram Figure 34.3a	155	
Life Cycle of Flowering Plant Flow Chart Figure 34.3b	156	
Fertilization Figure 34.5	157	
Dicot Embryo Development Figure 34.6	158	
Dicot (bean) Seed Structure and Seedling Development Figure 34.8	159	
Monocot (corn) Grain Structure and Seedling Development Figure 34.9	160	
Chapter 35		
Types of Epithelial Tissue in Vertebrates Figure 35.2	161	
Examples of Connective Tissue Figure 35.3	162	
Components of Whole Muscle Figure 35.5	163	
Muscular Tissue Figure 35.6	164	
Neuron Structure Figure 35.7a	164	
Human Skin Anatomy Figure 35.8	165	
Mammalian Body Cavities Figure 35.9	166	
Homeostasis and Negative Feedback Mechanism Figure 35.10	167	
Homeostasis and Temperature Control Figure 35.12	168	
Chapter 36		
Open vs. Closed Circulatory System Figure 36.2	169	

Circulation In Birds and Mammals Figure 36.3	170	Synapse Structure and Function Figure 41.7	202
External Heart Anatomy Figure 36.5	171	Spinal Cord Anatomy Figure 41.8	203
Internal View of the Heart Figure 36.6	172	Reflex Arc Figure 41.9	204
Blood Vessels in the Pulmonary and Systemic Circuits Figure 36.8	173	Autonomic System Structure and Function Figure 41.10	205
Blood Pressure Diagram Figure 36.9	174	Human Brain Figure 41.12	206
Composition of Blood Figure 36.11	175	Chapter 42	
Capillary Exchange Figure 36.13	176	Taste Buds Figure 42.1	207
Lymphatic Vessels Figure 36.14	177	Olfactory Cell Location and Anatomy Figure 42.2	208
Chapter 37		Anatomy of the Human Eye Figure 42.5	208
Lymphatic System Figure 37.1	178	Anatomy of the Retina Figure 42.6	209
Lymphoid Organs Figure 37.2	179	Focusing Figure 42.7	209
Inflammatory Reaction Figure 37.4	180	Anatomy of the Human Ear Figure 42.10	210
Clonal Selection Theory Figure 37.6	181	Anatomy of the Inner Ear Figure 42.11	210
Antigen-Antibody Reaction Figure 37.7a	182	Unwound Cochlea Figure 42.13a	211
Activation and Diversity of T Cells Figure 37.9	182	Chapter 43	
Chapter 38		Anatomy of the Long Bone Figure 43.4a	212
Incomplete vs. Complete Digestive Tract Figures 38.1 & 38.2	183	Human Skeleton and Major Muscles Figure 43.5	213
Human Digestive Tract Figure 38.5	183	Skull Figure 43.6	214
Anatomy of Intestinal Lining Figure 38.9	184	Vertebral Column Figure 43.7	215
Chapter 39		Pectoral Girdle, Arm, and Hand Figure 43.8	215
Respiration in Hydras and Planarians Figure 39.1	185	Pelvic Girdle, Legs, and Foot Figure 43.9	216
Anatomy of Fish Gills Figure 39.2	186	Knee Joint Figure 43.10	217
Tracheal System of Insects Figure 39.3	187	Skeletal Muscle Fiber Structure and Function Figure 43.13	218
Human Respiratory Tract Figure 39.6	188	Sliding Filament Theory Figure 43.14	219
Inspiration vs. Expiration Figure 39.7	189	Neuromuscular Junction Figure 43.15	220
External and Internal Respiration Figure 39.8	190	Chapter 44	
Chapter 40		Cellular Activity of Steroid Hormones Figure 44.1	221
Excretory Organs Figure 40.1a	191	Cellular Activity of Peptide Hormones Figure 44.2	222
Water and Salt Balance in Bony Fishes Figure 40.3	191	Human Endocrine System Figure 44.3	223
Planarian Flame Cell Excretory System Figure 40.4a	192	Hypothalamus and Anterior Pituitary Figure 44.4	224
Earthworm Nephridium Excretory System Figure 40.4b	192	Thyroid and Parathyroid Glands Figure 44.5	225
Urinary System in Humans Figure 40.5	193	The Pancreas as Endocrine/Exocrine Gland Figure 44.7	226
Kidney Anatomy Figure 40.6	193	Insulin and Glucagon Homeostatic System Figure 44.8	227
Nephron Anatomy Figure 40.7	194	Environmental Signals Figure 44.9	228
Steps in Urine Formation Figure 40.9a	195	Chapter 45	
Reabsorption of Water Figure 40.10	196	Reproduction in Earthworms Figure 45.2	229
Chapter 41		Male Reproductive System Figure 45.5	230
Evolution of the Nervous System Figure 41.1	197	Testis and Sperm Figure 45.7	231
Organization of the Human Nervous System Figure 41.2b	198	Hypothalamus-Pituitary-Testis Control Relationship Figure 45.8	232
Neuron Anatomy Figure 41.3	199	Female Reproductive System Figure 45.9a	233
Action Potential (Voltage Changes) Figure 41.4a-d	200	Anatomy of Ovary and Follicle Figure 45.10	234
Action Potential and Resting Potential Figure 41.5	201		

Hypothalamic-Pituitary-Ovary Control Relationship	Figure 45.11	235
Ovarian and Uterine Cycles	Figure 45.12	236

Chapter 46

Early Development in Lancelet	Figure 46.2	237
Comparative Stages of Development	Figure 46.3	238
Development of Neural Tube and Coelom	Figure 46.4	239
Chordate Embryo at Neurula Stage, C.S	Figure 46.5	239
Extraembryonic Membranes	Figure 46.9	239
Human Development Before Implantation	Figure 46.10	240
Early Development of Human Embryo	Figure 46.11	241
Placenta Anatomy	Figure 46.13	242

Chapter 48

S-Shaped Growth Curve	Figure 48.2	243
Survivorship Curves	Figure 48.4	244
Age Structure Diagrams	Figure 48a	245

Chapter 50

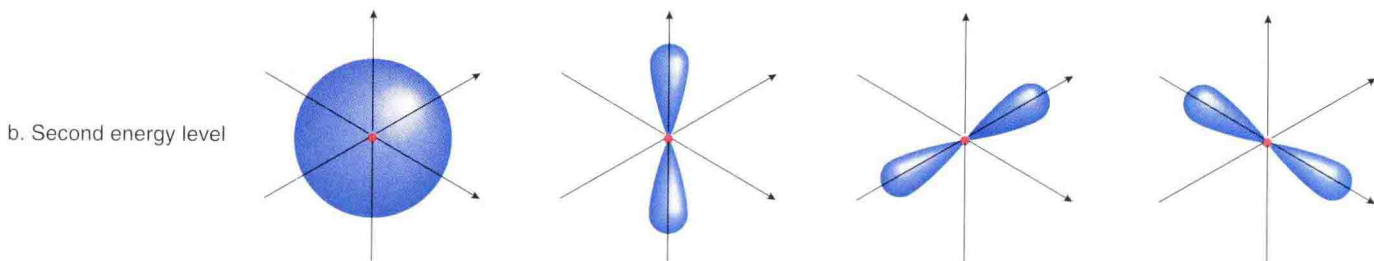
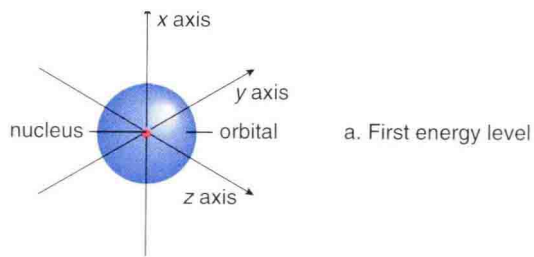
Ecosystem Composition	Figure 50.1a	246
Examples of Food Chains	Figure 50.4	247
Deciduous Forest Ecosystem	Figure 50.5	248
Freshwater Pond Ecosystem	Figure 50.6	248
Pyramid of Energy	Figure 50.7	249
Carbon Cycle	Figure 50.9	250
Nitrogen Cycle	Figure 50.10	251
Natural Food Web vs. Human Food Chain	Figure 50.13	252

Chapter 51

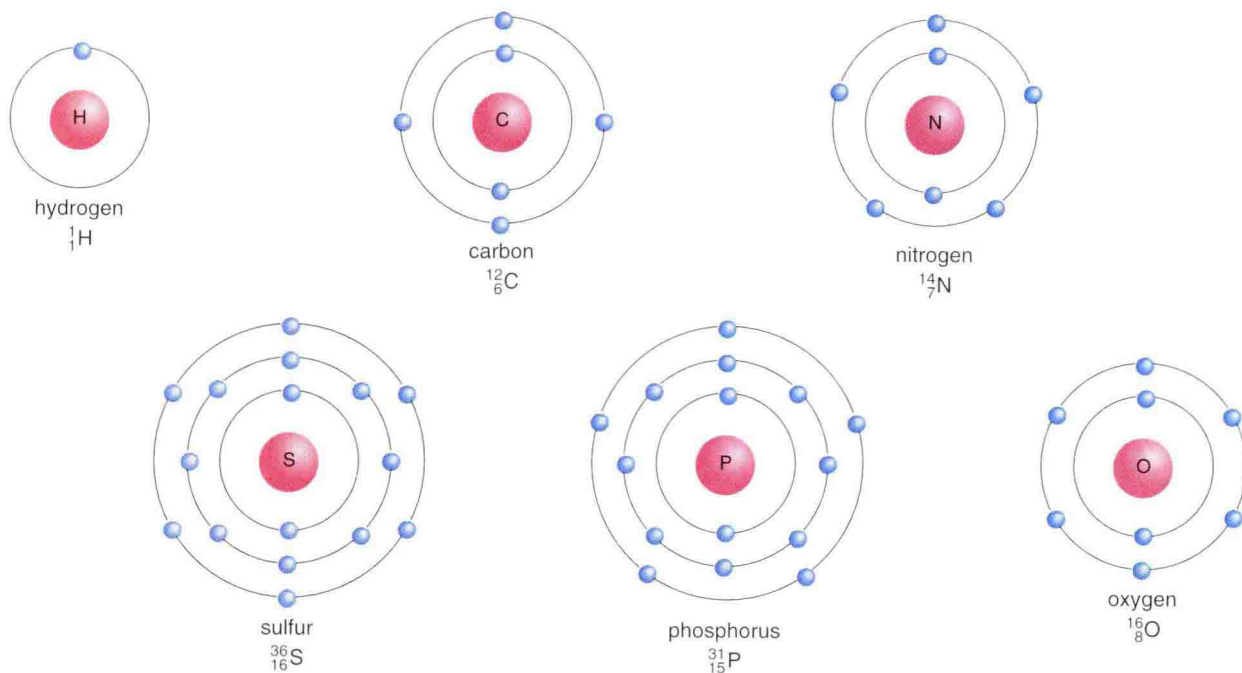
Ocean Life Zones	Figure 51.5	253
Temperature and Rainfall Determine Biome	Figure 51.6a	254
Soil Profiles	Figure 51.9	255
Net Primary Productivity of Biomes	Figure 51.14	256

Chapter 52

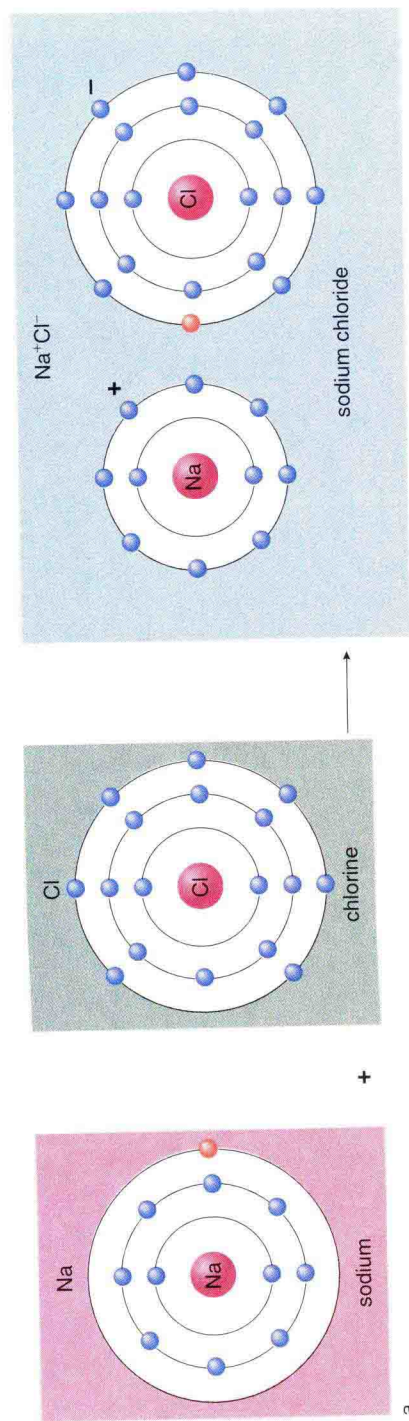
Air Pollutants	Figure 52.1	257
Global Warming	Figure 52.2	258
Biological Magnification	Figure 52.8	259



Electron Orbitals
Figure 3.5

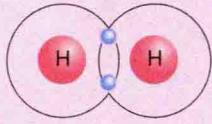
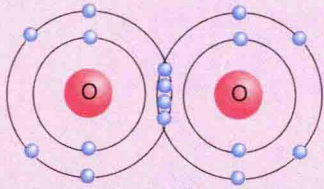
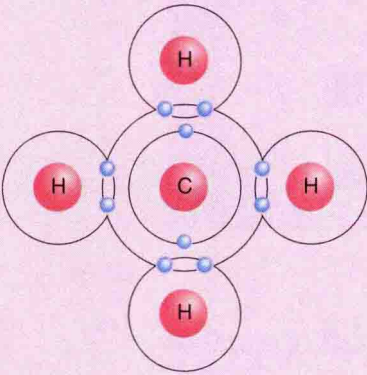


Bohr Models of Atoms
Figure 3.6

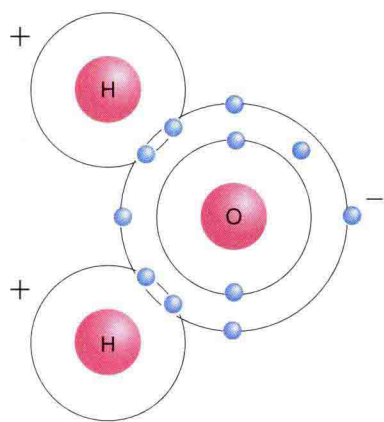


a.

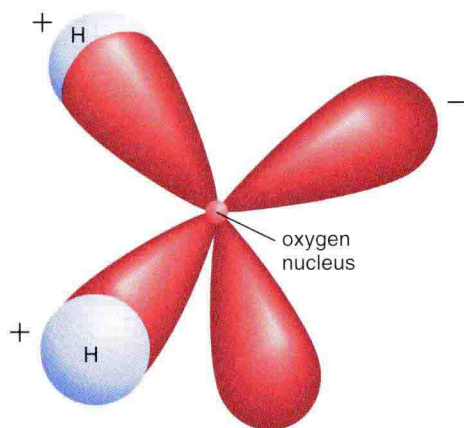
Ionic Reaction
Figure 3.7a

Electron Model	Structural Formula	Molecular Formula
a. 	H—H	H ₂
b. 	O=O	O ₂
c. 	$\begin{array}{c} \text{H} \\ \\ \text{H}-\text{C}-\text{H} \\ \\ \text{H} \end{array}$	CH ₄

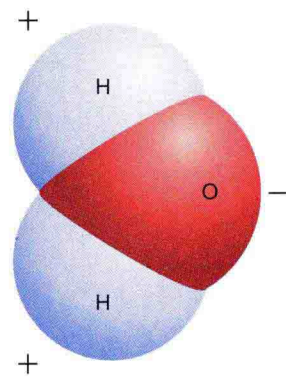
Covalent Bonding
Figure 3.9



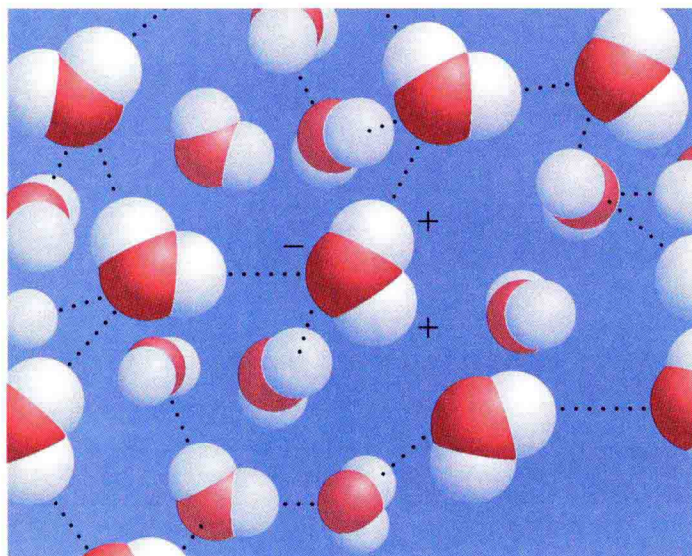
Electron Model



Orbital Model

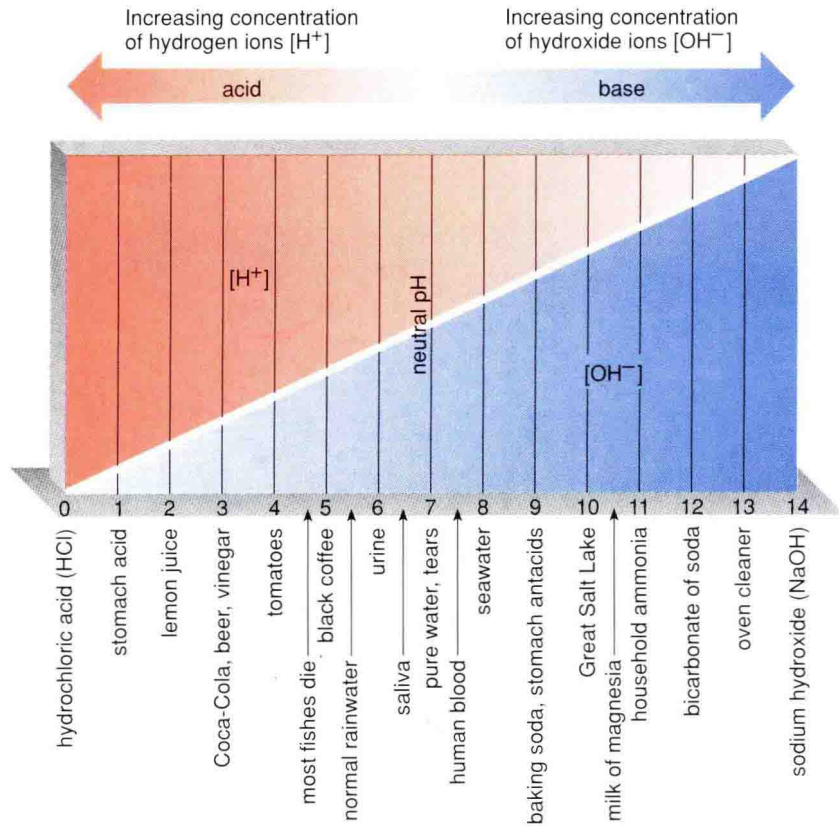


Space-Filling Model

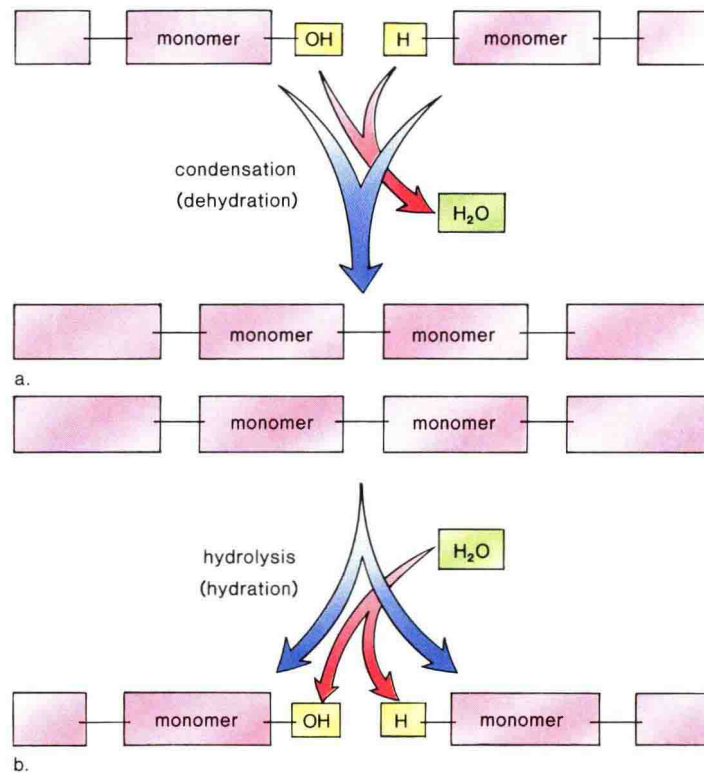


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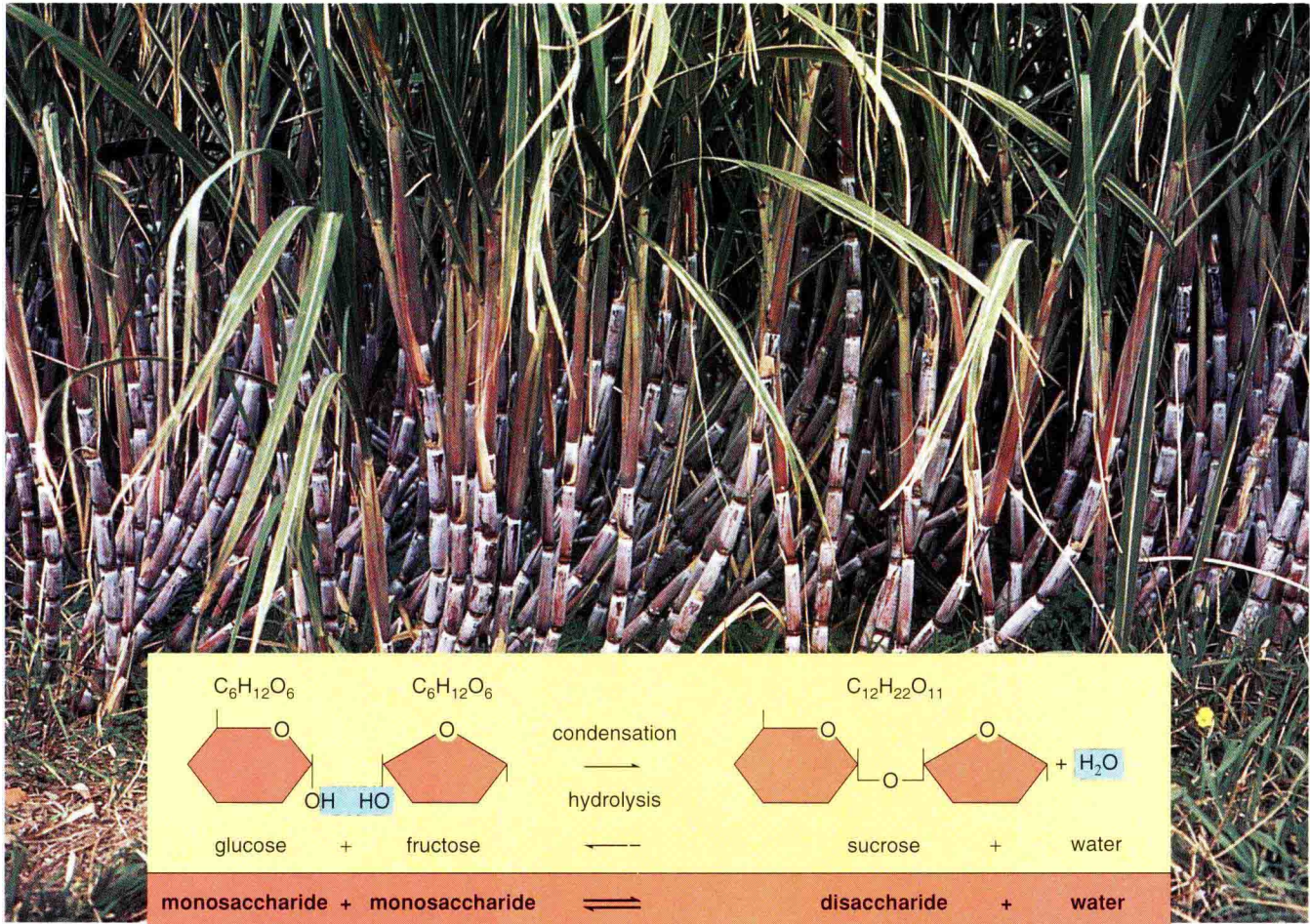
Water Molecule
Figure 3.10



pH Scale
Figure 3.14

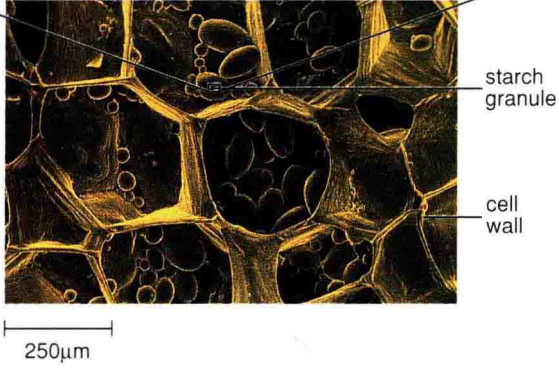
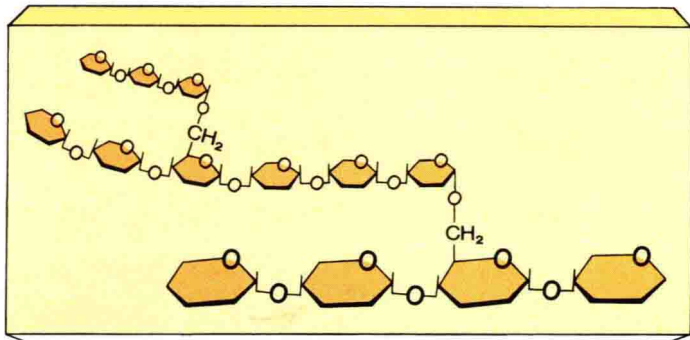


Synthesis and Breakdown of Polymers
Figure 4.4

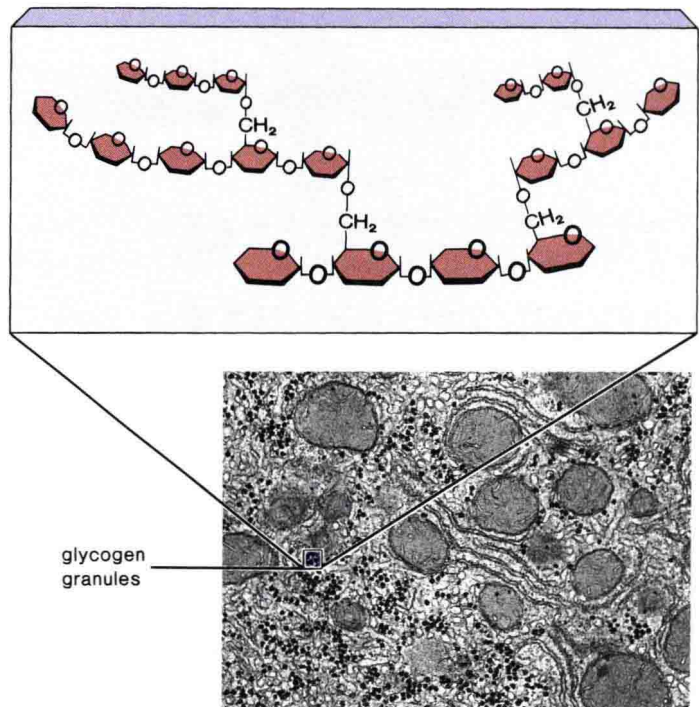


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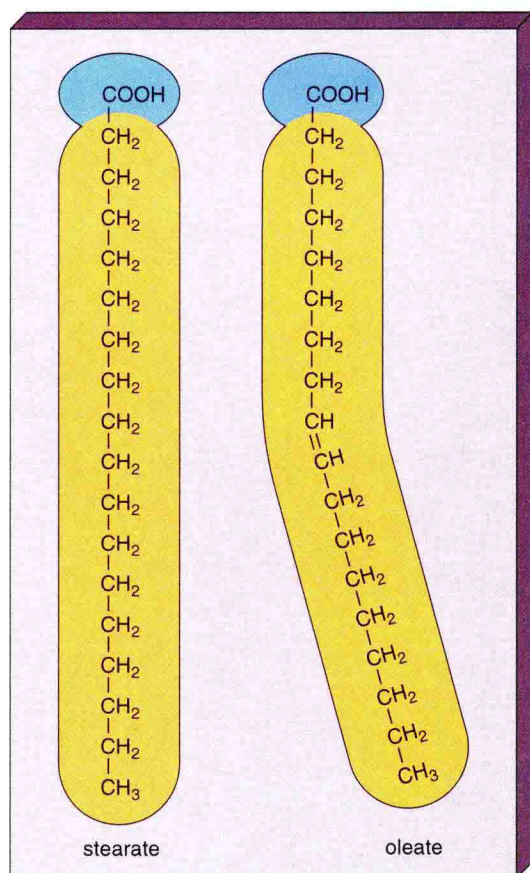
Disaccharide Formation and Breakdown
Figure 4.6



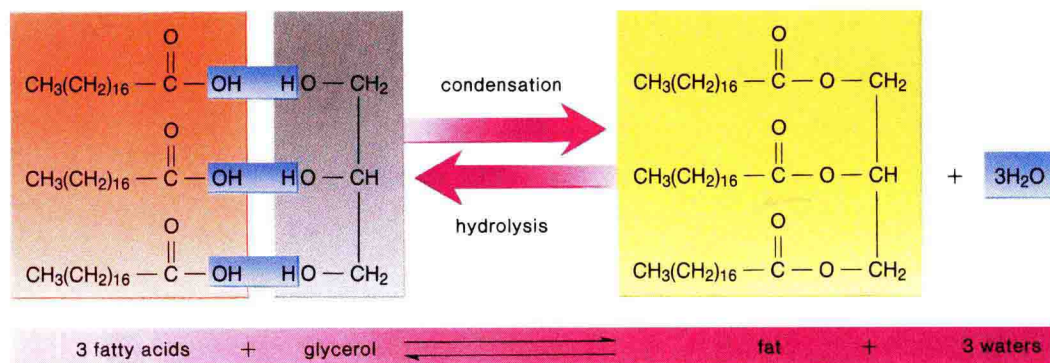
a. Starch Structure
Figure 4.7



b. Glycogen Structure
Figure 4.7b



Fatty Acid Structure
Figure 4.9



Formation of a Neutral Fat
Figure 4.10