

Elements of Basic Biology
Correlation with TEKS 112.34

PAGE	TITLE	b1	b5	c9A	c9C				
Unit 1 - THE CHEMISTRY OF LIFE									
Ch. 1	WHAT IS BIOLOGY	b1	b5	c2G	b2	c2A	c3B		
1	IMPORTANT WORDS TO KNOW	b1	b5	c2G	b2	c2A	c3B		
2	LIFE!	b1	b5	c2G	c1A				
3	YOU ARE A SCIENTIST	b1	b5	c2G	c1A				
4	FANCY NAMES	b1	b5	c2G					
5	MORE FANCY NAMES	b1	b5	c2G					
6	REAL LIFE	b1	b5	c2G					
Ch. 2	CHARACTERISTICS OF LIVING THINGS	b1	b5	c2G					
7	CHARACTERISTICS	b1	b5	c2G	c12B				
8	LIVING THINGS	b1	b5	c2G	c12B				
9	BIOLOGY FUN	b1	b5	c2G	c12B				
10	LOOK AROUND	b1	b5	c2G	c12B	c2B	c3A	c2C	c2D
11	THE SCIENTIFIC METHOD	b1	b5	c2H	c12B	c2F	c3A	c11B	
Ch. 3	ATOMS, MOLECULES, AND CHEMICAL	b1	b5	c12B					
12	LIFE IS ORGANIZED	b1	b5	c12B	c9D	c10C			
13	ATOMS	b1	b5		c9D	c10C			
14	ATOMS MAKE UP MOLECULES	b1	b5		c9D	c10C			
15	ELEMENTS, MOLECULES, AND COMPOUNDS	b1	b5		c9D	c10C			
16	THE SMALLEST OF THE SAME	b1	b5		c9D	c10C			
Ch. 4									
17	WATER FACTS	b1	b5	c10A	c11C				
18	WATER WINS OVER GRAVITY	b1	b5	c10A					
19	BUGS ON WATER	b1	b5	c10A					
20	THE TEMPERATURE IS RIGHT FOR LIFE	b1	b5	c10A					
21	SUBSTANCES LOVE WATER	b1	b5	c10A	c2G	c2H			
Ch. 5	CARBON	b1	b5	c3F	c12E				
22	VALUABLE	b1	b5	c3C	c12E				
23	DIAMONDS	b1	b5	c12E					
24	CARBON IS NEEDED	b1	b5		c12E				
25	C IS FOR CARBON	b1	b5		c12E				
26	GROUPS	b1	b5	c4B	c12E	c9A			
Ch. 6	METABOLISM	b1	b5	c4B					
27	METABOLISM	b1	b5	c4B					
28	HOW METABOLISM WORKS	b1	b5	c4B	c9A	c9C			
29	BUILDING UP AND BREAKING DOWN	b1	b5	c4B	c9A				
30	FAT OR SKINNY?	b1	b5	c4B					
31	ATP, ENZYMES, AND HORMONES	b1	b5	c4B	c9A	c9C			
UNIT 2 - CELL BIOLOGY									
Ch. 7	CELLS AND THEIR PARTS	c9A	c9C	c12A	c4A	c6G	b1	b5	
32	IMPORTANT WORDS TO KNOW	c9A	c9C	c12A	c4A	c6G	b1	b5	
33	CELL THEORY	b1	b5	c7G	c5A				
34	CELLS	b1	b5	c7G	c5A	c4A	c5B	c6F	
35	PARTS OF A CELL	b1	b5	c7G	c5A	c4B			
36	SAME AND DIFFERENT	b1	b5	c7G	c5A	c3F	c2F	c4A	c6F
37	CELL PARTS AND THEIR JOBS	b1	b5	c7G	c5A	c4B			
Ch. 8	CELL PARTS AND THEIR JOBS	b1	b5						
38	THE BLOB	b1	b5	c9A	c5A	c4B	c9C	c9D	
39	CYTOPLASM	b1	b5	c9A	c5A	c4B	c9C		
40	BAGS	b1	b5	c9A	c5A				
41	THE NUCLEUS RUNS THE SHOW	b1	b5	c9A	c5A	c9D	c9C		
42	THE CONTROL CENTER	b1	b5	c9A	c5A	c9D	c4A	c6F	
Ch. 9	THE FOOD OF CELLS								
43	THE CHEMICAL FACTORY	b1	b5	c9A	c5A	c4B			
44	CARBOHYDRATES ARE SWEET	b1	b5	c9A	c5A	c4B			
45	LIPIDS ARE FATS	b1	b5	c9A	c5A	c4B			
46	MUSCLE UP!	b1	b5	c9A	c5A	c4B	c5B	c11C	
47	THE TWISTED LADDER	b1	b5	c9A	c5A	c9D			
Ch. 10	HOW CELLS GET ENERGY								
48	PLANTS GET ENERGY	b1	b5	c4B	c5A	c5B		c9B	
49	ANIMALS GET ENERGY	b1	b5	c4B	c5A	c12C	c12B	c12A	c9B
50	WHAT'S FOR LUNCH?	b1	b5	c11B	c5A	c12C	c12B	c12A	c9B
51	ENERGY FROM THE SUN.	b1	b5	c5A					c9B
52	YOUR FOOD BECOMES ENERGY	b1	b5	c4B	c5A	c9A	c9C	c5B	c9B

Ch. 11	PHOTOSYNTHESIS							
53	SUNLIGHT TO PLANT ENERGY	b1	b5	c4B	c5A	c9B		
54	LIGHT ENERGY BECOMES CHEMICAL ENERGY	b1	b5	c4B	c5A	c9A	c9C	c9B
55	CALVIN	b1	b5	c4B	c5A			c9B
56	CHANGE CAN BE BAD	b1	b5	c12D	c5A	c12F	c7D	c11B c11D c9B
57	IN REVERSE	b1	b5	c9A	c5A	c4B		c9B
Ch. 12	REPRODUCTION							
58	LIVING THINGS REPRODUCE	b1	b5	c10A	c5A			
59	MAKING NEW CELLS	b1	b5	c10A	c5A	c5B		
60	MY TOES IS?	b1	b5	c10A	c5A	c6G		
61	MEIOSIS AND SEX	b1	b5	c10A	c5A	c6G	c9D	c9A
62	MITOSIS AND MEIOSIS	b1	b5	c10A	c5A	c6G	c9D	
UNIT 3 - GENETICS								
Ch. 13	WHAT IS GENETICS?							
63	IMPORTANT WORDS TO KNOW	b1	b5	c5C	c6A	c6E	c6C	
64	WHAT IS GENETICS?	b1	b5	c5C	c6A	c6E	c3F	c6B
65	FAMILY TIES	b1	b5	c5C	c6A	c6E	c2G	c6B c2H
66	WHAT IS HEREDITY?	b1	b5	c5C	c6A	c6E	c9D	c6B
67	HEREDITY IS FOR THE BIRDS!	b1	b5	c5C	c6A	c6E		c6B
68	BUILDING YOUR HOUSE	b1	b5	c5C	c9D	c6B	c10C	c11B c9A
Ch. 14	MENDEL AND HIS GREAT IDEA							
69	PASS THE PEAS	b1	b5	c5C	c3D	c3F	c6F	
70	PEAS AND SEX	b1	b5	c5C	c3D	c3F	c6F	
71	LOOKING AT PEAS	b1	b5	c5C	c3D	c3F	c6F	
72	TALL AND SHORT	b1	b5	c5C	c3D	c3F	c6F	c2G c2H c6H
73	OTHER PARENTS	b1	b5	c5C	c3D	c3F	c6F	c2G c2H
Ch. 15	STRUCTURE OF DNA							
74	DNA IS A DOUBLE HELIX	b1	b5	c5C	c9D	c9A		
75	DNA STRUCTURE	b1	b5	c5C	c9D			
76	NUCLEOTIDES	b1	b5	c5C	c9D			
77	LOOKING AT DNA	b1	b5	c5C	c9D			
78	COOL NEWS	b1	b5	c5C	c9D	c2G	c2H	c3A c3D c3B
Ch. 16	CHROMOSOMES							
79	WHAT ARE CHROMOSOMES?	b1	b5	c5C	c9D			
80	IDENTITY	b1	b5	c5C	c9D	c9A		
81	MORE ABOUT CHROMOSOMES	b1	b5	c5C	c9D			
82	A PROBLEM	b1	b5	c5C	c9D			
83	SEX CHROMOSOMES	b1	b5	c5C	c9D			
Ch. 17	FROM GENES TO PROTEIN							
84	FROM GENES TO PROTEIN	b1	b5	c5C	c9D	c9A	c6D	c5D c11C
85	PROTEINS GET THE JOB DONE	b1	b5	c5C	c9D	c9A	c6D	c9C c4B
86	BUILDING A PROTEIN	b1	b5	c5C	c9D	c9A	c6D	c9C c6C
87	PROOFREADING!	b1	b5	c5C	c9D	c9A	c6D	c9C
88	TRANSLATION	b1	b5	c5C	c9D	c9A	c6D	c6C
Ch. 18	THE GENE POOL							
89	CRICK AND WATSON	b1	b5	c5C	c9D			
90	ALLELES	b1	b5	c5C				
91	SPLASH INTO THE GENE POOL	b1	b5	c5C				
92	CHANGING THE POOL	b1	b5	c5C	c2G	c2H	c9D	
93	BREEDING DOGS	b1	b5	c5C	c2G	c2H	c5D	c12B
UNIT 4 - TAXONOMY AND ECOLOGY								
94	IMPORTANT WORDS TO KNOW	b1	b5	c12A	c7E	c12B		
Ch. 19	TAXONOMY							
95	KNOW IT ALL	b1	b5	c3B	c3C	c3F	c8A	c8B c8C
96	NAMING EVERYTHING	b1	b5	c9D		c3F	c8A	c8B c8C
97	CLASSIFY	b1	b5				c8A	c8B c8C
98	DOGS, CATS, AND HUMANS	b1	b5	c3F			c8A	c8B c8C
99	HUMANS ARE HOMO SAPIENS	b1	b5	c9A			c8A	c8B c8C
Ch. 20	CLASSIFYING ORGANISMS							
100	SIMPLE ORGANISMS	b1	b5	c3F			c8A	c8B c8C
101	CLASSIFYING	b1	b5	c3F	c2G	c2H	c8A	c8B c8C c9B
102	THE TOP FOUR	b1	b5				c8A	c8B c8C
103	MUSHROOMS AND MOLD	b1	b5	c4B			c8A	c8B c8C
104	MOLD IS IMPORTANT	b1	b5	c3F	c11C	c3D	c8A	c8B c8C
Ch. 21	NATURAL SELECTION							
105	SPONTANEOUS GENERATION	b1	b5	c3F	c2E			
106	LIFE CHANGES OVER TIME	b1	b5	c7D	c7E	c7F	c7C	c11B c7G
107	ONLY THE STRONG SURVIVE	b1	b5	c7D	c7E	c7F	c7C	c3D
108	HOW DO WE KNOW?	b1	b5	c7D	c7E	c7F	c3F	c3D c7A c7B c11B
109	HUMAN EVOLUTION	b1	b5	c7D	c7E	c7F	c3A	c3D c7A c7B c11D
Ch. 22	ECOLOGY							
110	ECOLOGY	b1	b5	c12A	c12B	c7D	c11B	c11D
111	ECOSYSTEMS	b1	b5	c12A	c12B	c12C	c11B	c11D c3D c3F
112	LIVING TOGETHER	b1	b5	c12A	c12B	c11C	c11B	c11D
113	HABITATS AND NICHES	b1	b5	c12A	c12B		c11B	c11D

114	SUCCESSION	b1	b5	c12A	c12D	c12F	c11B	c11D
Ch. 23	BIOMES AND RESOURCES							
115	BIOMES	b1	b5	c12A	c12B			
116	LAND BIOMES	b1	b5					
117	WATER BIOMES	b1	b5					
118	NATURAL RESOURCES	b1	b5	c1B	c12D	c12F		
119	POLLUTION	b1	b5	c1B	c12D	c12F	c2G	c3H
				c1B	c12D	c2G	c3D	c3F
					c11B			
Ch. 24	CYCLES IN NATURE							
120	CYCLES	b1	b5	c4B	c9A	c9B	c9D	c12E
121	WATER CYCLE	b1	b5					
122	CARBON CYCLE	b1	b5	c4B	c12E			
123	NITROGEN CYCLE	b1	b5	c9A	c12E			
124	PHOSPHORUS CYCLE	b1	b5	c9A	c9D			
	UNIT 5 - THE PLANT KINGDOM							
125	IMPORTANT WORDS TO KNOW	b1	b5	c9B			c10B	
Ch. 25	INTRODUCTION TO PLANTS							
126	WHAT IS A PLANT?	b1	b5	c9B	c12A	c12B	c4A	c6F
127	KINDS OF PLANTS	b1	b5	c3F			c10B	
128	MOSS	b1	b5				c10B	
129	THE BIG T	b1	b5	c9B			c10B	
130	THE WORLD'S TALLEST TREES	b1	b5				c10B	
Ch. 26	TYPES OF PLANTS							
131	WHAT ABOUT FERNS?	b1	b5				c10B	
132	SEED PLANTS	b1	b5				c10B	
133	ANGIOSPERMS	b1	b5				c10B	
134	CHRISTMAS TREES	b1	b5				c10B	
135	GYMNOSPERMS	b1	b5				c10B	
Ch. 27	PARTS OF PLANTS							
136	PARTS OF PLANTS	b1	b5	c9B			c10B	
137	ROOTS	b1	b5	c10B				
138	ROOT LAYERS	b1	b5	c10B	c5B			
139	STEMS	b1	b5	c10B				
140	LEAVES	b1	b5	c10B	c4B	c9B		
Ch. 28	PLANT GROWTH							
141	HOW PLANTS GROW	b1	b5	c10B				
142	MONOCOTS AND DICOTS	b1	b5	c10B				
143	WATER AND SUNLIGHT	b1	b5	c10B	c4B	c9B	c12B	c5B
144	PLANT GROWTH	b1	b5	c10B	c5C	c11B	c5B	
145	OUCH!	b1	b5	c10B				
Ch. 29	PLANT REPRODUCTION							
146	MAKING MORE PLANTS	b1	b5	c10B				
147	FLOWERS	b1	b5	c10B				
148	REPRODUCTIVE ORGANS	b1	b5	c10B				
149	SEXUAL REPRODUCTION	b1	b5	c10B	c6G			
150	CYCLE	b1	b5	c10B	c9D			
Ch. 30	BIODIVERSITY							
151	PLANTS AROUND THE WORLD	b1	b5	c10B	c9B	c12D	c7A	c7B
152	FORESTS	b1	b5	c10B		c7C	c3F	c3E
153	RAIN FORESTS AND BIODIVERSITY	b1	b5	c10B	c12A	c12B	c9B	
154	GRASSY AREAS	b1	b5	c10B	c12A	c12B		
155	EXTREME!	b1	b5	c10B				
	UNIT 6 - THE ANIMAL KINGDOM							
156	IMPORTANT WORDS TO KNOW	b1	b5	c4B	c11A	c8B	c8C	
Ch. 31	INTRODUCTION TO ANIMALS							
157	WHAT ARE ANIMALS?	b1	b5	c8B	c8C			
158	ABOUT BACKBONES	b1	b5	c8B	c8C	c3F		
159	NO BACKBONES	b1	b5	c8B	c8C			
160	INVERTEBRATES	b1	b5	c8B	c8C	c12A	c12B	
161	BUGS AND OTHERS	b1	b5	c8B	c8C	c9A		
Ch. 32	BACKBONES							
162	PHYLUM CHORDATA	b1	b5	c8B	c8C			
163	FISH AND AMPHIBIANS	b1	b5	c8B	c8C			
164	REPTILES	b1	b5	c8B	c8C			
165	BIRDS	b1	b5	c8B	c8C			
166	MAMMALS	b1	b5	c8B	c8C			
Ch. 33	BASICS ABOUT THE HUMAN BODY							
167	THE HUMAN BODY	b1	b5	c4B	c9A	c5B	c10A	c11A
168	THE SKIN	b1	b5				c10A	
169	THE SKELETAL AND MUSCULAR SYSTEMS	b1	b5				c10A	
170	THE DIGESTIVE SYSTEM	b1	b5	c9C			c10A	
171	THE URINARY SYSTEM	b1	b5				c10A	
Ch. 34	BODY SYSTEMS							
172	THE RESPIRATORY SYSTEM	b1	b5	c2G	c2H		c10A	
173	THE ENDOCRINE SYSTEM	b1	b5	c4B	c11A		c10A	
174	THE NERVOUS SYSTEM	b1	b5	c5B			c10A	

175	THE BRAIN	b1	b5	c10A
176	BRAIN PARTS	b1	b5	c10A
Ch. 35	BODY SYSTEMS			
177	THE CIRCULATORY AND LYMPHATIC SYSTEM	b1	b5	c4B c5B c11C c10A
178	THE HEART	b1	b5	c4B c10A
179	THE REPRODUCTIVE SYSTEM	b1	b5	c10A
180	BABY	b1	b5	c10A
181	MULTIPLE BIRTH	b1	b5	c10A
Ch. 36	BEHAVIOR AND HEALTH			
182	SOCIAL BEHAVIORS	b1	b5	c3F c5C c12A c12B c11B c11C
183	HEALTH	b1	b5	c11C
184	WATCH OUT!	b1	b5	c11C
185	INFECTION	b1	b5	c4C c9C c11C
186	HOW INFECTIOUS DISEASES ARE SPREAD	b1	b5	c4C c12A c12B c11C
187	IMPORTANT WORDS AND MEANINGS	b1	b5	