

TABLE OF CONTENTS

CONTENT	TOPICS	MAPS		CONCEPT FILES	ANSWER KEYS
PRACTICE	Practice Map	2			3
		Lower Challenge	Higher Challenge		
CELL BIOLOGY	Cell Structures	4	5	6	7
	Cell Energy	8	9	10	11
	Cell Reproduction	12	13	14	15
	Levels of Organization	16	17	18	19
	Bacteria	20	21	22	23
	Viruses	24	25	26	27
	Protista	28	29	30	31
	Sarcodines	32	33	34	35
	Ciliates	36	37	38	39
	Flagellates	40	41	42	43
	Sporozoans	44	45	46	47
PLANT BIOLOGY	Algae	48	49	50	51
	Fungi	52	53	54	55
	Mosses	56	57	58	59
	Vascular Plants	60	61	62	63
	Ferns	64	65	66	67
	Roots	68	69	70	71
	Stems	72	73	74	75
	Leaves	76	77	78	79
	Flowers	80	81	82	83
ANIMAL BIOLOGY	Sponges	84	85	86	87
	Coelenterates	88	89	90	91
	Worms	92	93	94	95
	Mollusks	96	97	98	99
	Arthropods	100	101	102	103
	Cold-blooded Vertebrates	104	105	106	107
	Warm-blooded Vertebrates	108	109	110	111
HUMAN BIOLOGY	Skeletal System	112	113	114	115
	Muscular System	116	117	118	119
	Digestive System	120	121	122	123
	Circulatory System	124	125	126	127
	Respiratory System	128	129	130	131
	Excretory System	132	133	134	135
	Nervous System	136	137	138	139
	Human Reproduction	140	141	142	143

Critical Thinking → CONCEPT FILE

Cell Energy

Background

Cells require energy to live.

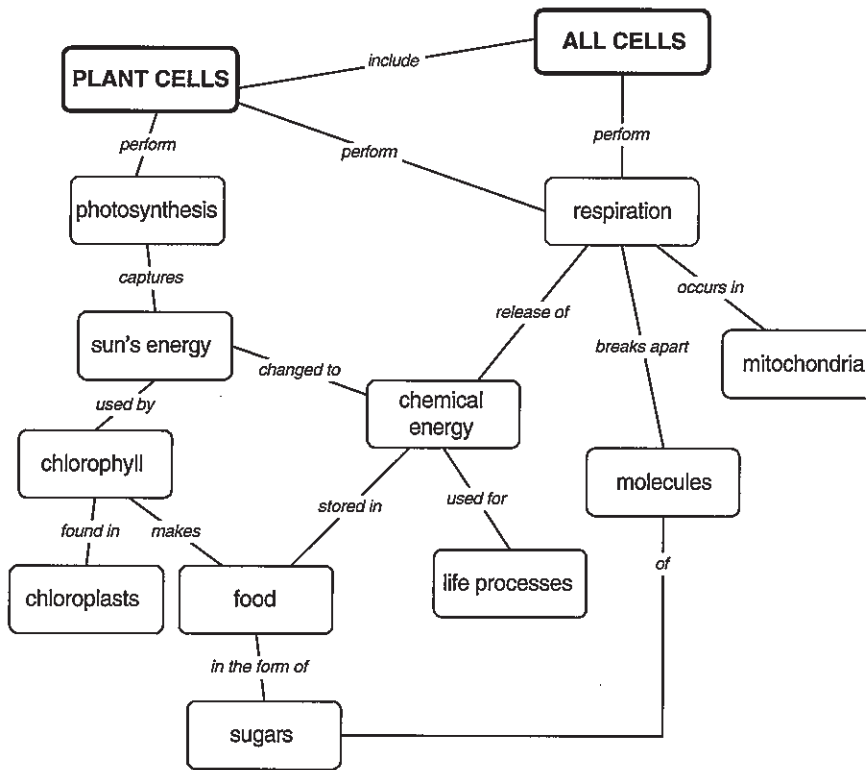
- Some cells (such as most plant cells) capture light energy and store it in foods such as sugar.
 - Chlorophyll is a substance that can capture light energy.
 - Chloroplasts in cells contain the green pigment chlorophyll.
- *All* living cells burn food and release energy.
 - In most cells, the burning of food occurs in the mitochondria.
 - Burning food releases its energy.

Vocabulary

- chlorophyll**—A green pigment used during food manufacture.
- chloroplasts**—The part of the cell where photosynthesis occurs.
- mitochondria**—Centers of energy release in the cell.
- photosynthesis**—The process by which living things make their own food.
- respiration**—The release of energy during the burning of food.

Cell Energy

LOWER AND HIGHER CHALLENGE



Score:

Lower Challenge 7 words
 Higher Challenge 11 words

Starting hints: Begin at *food* and work up. On the higher challenge map, the main items are not filled in, but appear in the word list in capital letters. If students need help, suggest that the terms in all capitals will likely belong in the larger boxes at the top of the map.