Unit 1: The Strength to Survive

Befor 2.	e You Read						p. 2	
Bird		Fish	Insect	Grazi	ng Animals	Feline	Canine	
falcor ostrict roadru swift albatr dovek loon puffin thick-	h unner oss cie	salmon eel	beetle	0		cheetah	coyote	
Read	ing Comprehe	ension					p. 5	
1. 2.	F T	3. 4.	T T	5. 6.	T F	7. F 8. T		
Read Apply	ing Skill: Skir y	nming an	d Scanning				p. 5–6	
1. 2. 3.	<i>Earthquake</i> 220 Hz per s guitar			 yes. It reached 5,132 Charles II 1,197 pounds Stanford University in California 				
4.	National Sle vers will vary.	ep Awarei	ness Week	8.	Stanford Un	niversity in (California	
	bulary Activit	ties: A					р. 6–7	
1.	maintain		durations	5.	excess	7. v	velfare	
2.	achieve	4.	exceedingly	6.	maintain	8. ti	he elements	
Voca	bulary Activit	ties: B					p. 7	
1. 2.	a a	3. 4.	a b	5. 6.	a a	7. b		
	bulary Activit			-			p. 8	
1. 2.	d g	3. 4.	a b	5. 6.	c e	7. f		

Vocabulary Activities: D Answers will vary. Possible answers:	p. 8
 They can maintain speeds between 30 and 45 miles p It can achieve speeds of 200 miles per hour. They can travel for long durations. 	ber hour.
 Vocabulary Activities: E The sounds made by blue whales can exceed 150 dec A squirrel's welfare depends on its ability to remembridden thousands of nuts. Dall's porpoise, the fastest sea mammal, can achieve hour. The marmot, a large rodent, can hibernate for duration year. 	per where it has individually a speeds of up to 56 miles per
Reading Comprehension1.T2.F3.F4.	р. 11 F 5. Т
Reading Skill: Outlining as You Read Apply A I. Sprinting II. Marathon III. Diving IV. Jumping V. Weightlifting	p. 12
Reading Skill: Outlining as You Read Apply B I. Sprinting A Mammals B. Birds II. Marathon A. Birds B. Fish C. Mammals III. Diving A. Mammals B. Birds IV. Jumping A. Long Jump B. High Jump V. Weightlifting A. African elephant B. Rhinoceros beetle	p. 12

Reading Skill: Outlining as You Read Apply C

Possible informal outline:

ways humans lose heat

- millions of sweat glands release heat
- no fur; sweat evaporates quickly
- upright posture
 - -less area exposed to the sun
 - -more area exposed to cooling wind

anatomical features that facilitate running

- long stride
- springy tendons in calves and ankles
- large muscle in hips prevents falling forward
- rapid standing and climbing made easy
- long neck, twisting shoulders counterbalance head to stay upright

possible reasons for long-distance running sometimes in hot conditions

- to run down prey
 - -track prey and return for help quickly
 - -extend hunting range while staying in established encampment
- to not become prey
 - -able to return quickly before nighttime
 - -springy muscles help fight more effectively

Vocabulary Activities: A p. 13–14 5. 1. undergo maintain 9. release 2. facilitate 6. 10. exceeding area 3. transfer 7. preliminary releases transfers 4. 8. **Vocabulary Activities: B** 4. b 5. a p. 13 1. С 2. f 3. e 6. d

Vocabulary Activities: C

Answers will vary. Possible answers:

- 2. Using a good learners' dictionary, working with flash cards, and joining conversation groups can facilitate language learning.
- 3. Childhood development is facilitated by good nutrition, attentive parents, and good health care.
- 4. A social website can facilitate keeping in contact with friends.
- 5. The healing of a muscle injury can be facilitated by resting and icing the muscle.

Vocabulary Activities: D p. 15 elemental welfare sole 5. Preliminary 1. 3. 7. 2. exceeded excessive elementary underwent 4. 6. 8.

Vocabulary Activities: E

Sentences will vary.

Unit 2: Attention, Please

Reading Comprehension								
1.	Т	3.	F	5.	Т	7.	F	
2.	F	4.	Т	6.	F	8.	F	

Reading Skill: Finding the Main Idea—Reading Past the "Pivot" p. 21 Apply A

Yet is the pivot word. The main idea is expressed in the sentence Our interest concerns how the human brain manages multiple tasks simultaneously and factors that inhibit the successful completion of these tasks.

Reading Skill: Finding the Main Idea—Reading Past the "Pivot" p. 21 Apply **B**

Answers will vary. Possible answers:

Pivot word: *But* (line 24)

Before pivot: We can do the dinner dishes while thinking about our next vacation, or chew gum while reading a newspaper.

After pivot: Do multitasking humans operate effectively and efficiently when they really need to concentrate?

The author's point: Humans probably cannot multitask effectively when concentration is required for both tasks.

Vocabulary Activities: A	p. 2
1. requirement 4. mediate	6. beneficial
2. evidence 5. Psychologis	sts/ 7. negative
3. Research Researchers	8. psychological

Vocabulary Activities: B

Answers will vary. Possible answers:

- 2. Issue: the reasons for the decline in violent crime Ouestion: What factors have contributed to the decline in violent crime? 3. Issue: changing the minimum age for driving
- Ouestion: What are some effects this change will have?
- 4. Issue: concerns about social websites Question: What are some of the dangers of social websites?
- 5. Issue: violence in video games

Question: What's the best way to deal with video game violence?

6. Issue: why workers and managers should work together on differences Question: What kind of mediation can help workplace disputes?

Vocabulary Activities: C

1.	but	2.	Whereas	3.	Ø
					'

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p. 22–23

p. 23

5

p. 26

p. 27

p. 27

Review a Skill: Outlining as You Read

Possible outline:

Findings

- more sleep can benefit most adults
- adults require 7 or more hours of sleep but don't get it
- consequences of lack of sleep
 - —impairs memory, concentration
 - ----increases stress, disrupts metabolism

Significance of lack of sleep

- responsible for over 100,000 car crashes per year
- evidence that daylight savings' loss of 1 hour causes crashes
- loss of worker productivity estimated at \$18 billion

Practical application

- National Sleep Awareness week established
- Drivers educated about drowsiness effects as well as intoxication effects

Reading Comprehension										
1.	F	3. T	5.	Т	7.	F				
2.	F	4. T	6.	F	8.	Т				

Reading Skill: Isolating Causes and Effects							
Apply A							
AS improves memory	CD disrupts the body's metabolism						
AS increases concentration	AS improves cognitive functioning						
AS strengthens the immune system	CD cuts their lives short						
AS decreases accidents	CD taxes the immune system						
CD impairs memory	CD wreaks havoc on human safety						

Reading Skill: Isolating Causes and Effects Apply B

1.	lead to	3.	show	5.	leads to
2.	show	4.	lead to	6.	show

Reading Skill: Isolating Causes and Effects Apply C

Answers will vary. Possible answer:

Sleep deprivation can be dangerous. For example, chronic sleep deprivation can have a negative effect on our mind and body. People who sleep less than 8 hours a night show a diminished ability to pay attention and make decisions. As a result, they are more likely to have accidents and endanger others. Sleep deprivation also harms the body's immune system, a condition that can lead to disease and premature aging.

Vocabulary Activities: A

information: U	benefits: C	safety: U
consequences: C	knowledge: U	study: U
suggestions: C	understanding: U	
advice: U	health: U	
advice: U	health: U	

Vocabulary Activities: B

Answers will vary. Possible answers:

- 1. They are inconsistent. The employee says he could not tell what color jacket the suspect was wearing but then says he knows it was not a blue jacket. Also the employee says that he was cleaning the mirrors when the man approached him. He should have been able to see the man in the mirror.
- 2. The employee did not call the police right away. This seems unusual.
- 3. No. The employee says the man ran out. The witness says the man walked calmly.
- 4. No, it seems like the employee is lying.

Vocabulary Activities: C p. 30 facts 5. information 9. understanding 1. 2. 6. suggestions Studies 10. consequences 7. *evidence* 3. instructions 8. research 4. advice

Vocabulary Activities: D

Answers will vary. Likely to be checked:

1, 3, 4, 7 Discussions will vary.

Vocabulary Activities: E

Answers will vary. Possible answers:

- 2. We can benefit from the results of psychological research.
- 3. The findings of this study are consistent with the evidence from other research.
- 4. Businesses are required to maintain accurate records of all transactions.
- 5. There is evidence that sleep deprivation negatively affects performance at work.
- 6. It is increasingly evident that getting adequate sleep is beneficial.

Vocabulary Activities: F

Answers will vary. Possible answers:

- 2. Students must fulfill strict requirements in order to qualify for a scholarship.
- 3. This exercise program, if done regularly, should provide long-term benefits.
- 4. Psychologists have gathered compelling evidence against the claim that multitasking increases productivity.
- 5. They are carrying out research on the negative effects of chronic sleep deprivation.

p. 30–31

p. 32

p. 31

Unit 3: Movie Magic

Review a Skill: Pivot Wordsp. 37Paragraph 2: Rather than launch Smell-O-Vision as the next evolution in entertainment,the film flagmed											
Parac	Paragraph 3: In practice, most of Castle's gimmicks were only marginally successful and										
I urug	often got more giggles than screams										
Parag	Paragraph 4: Unlike Smell-O-Vision and Castle's inexpensive tricks, the problem with										
D			as that it was t			• • • •	1				
Parag	graph 5: Howev	ver, the p	rocess was no	ot free fro	m techn	ncal glitc	ches				
Read	ling Comprehe	ension: A	A						p. 37		
1.	F 3.		5.	Т	7.	F	9.	F	P		
2.	F 4.	F	6.	Т	8.	F					
Road	ling Comprehe	onsion · I	2						р. 3 7		
2.	No. He died								p. 57		
3.	pipe smoke a										
4.	House of Wa										
5.	Earthquake,	5									
6. Thirteen Ghosts											
6.	Thirteen Gho		, noncreative	r, and Da	unesiar	Galacite	u				
		osts			unestar	Galaciic	·u		n 38		
Voca	bulary Activit	osts ies: A						seek	p. 38		
	bulary Activit vision	osts	Eventually	5. 6.	highl	ighting		seek	p. 38		
Voca 1.	bulary Activit	osts ies: A 3.	Eventually	5.	highl			seek	p. 38		
Voca 1. 2. Voca	bulary Activit vision margins bulary Activit	ies: A 3. 4. ies: B	Eventually retain	5. 6.	highl forthe	ighting	7.	seek	р. 38 р. 39		
Voca 1. 2.	bulary Activit vision margins	ies: A 3. 4. ies: B	Eventually	5.	highl	ighting		seek a	-		
Voca 1. 2. Voca 1.	bulary Activit vision margins bulary Activit b 2.	ies: A 3. 4. ies: B a	Eventually retain	5. 6.	highl forthe	ighting coming	7.		р. 39		
Voca 1. 2. Voca 1.	bulary Activit vision margins bulary Activit	ies: A 3. 4. ies: B a	Eventually retain	5. 6.	highl forthe	ighting coming	7. 5.		-		
Voca 1. 2. Voca 1. Voca	bulary Activit vision margins bulary Activit b 2. bulary Activit	<i>ies: A</i> 3. 4. <i>ies: B</i> a <i>ies: C</i>	Eventually retain 3.	5. 6. b	highl fortho 4.	ighting coming	7. 5.	a	р. 39		
Voca 1. 2. Voca 1. Voca 1. 2.	bulary Activit vision margins bulary Activit b 2. bulary Activit d c	ies: A 3. 4. ies: B a ies: C 3. 4.	Eventually retain 3. a c	5. 6. b	highl fortho 4. d	ighting coming	7. 5.	a	р. 39 р. 39		
Voca 1. 2. Voca 1. Voca 1. 2.	 bulary Activit vision margins bulary Activit b 2. bulary Activit d 	Dists iies: A 3. 4. iies: B a iies: C 3. 4. ension: A	Eventually retain 3. a c	5. 6. b	highl fortho 4. d a	ighting coming	7. 5.	a	р. 39		
Voca 1. 2. Voca 1. Voca 1. 2. Read	 bulary Activit vision margins bulary Activit b 2. bulary Activit d c ling Comprehe 	Dists iies: A 3. 4. iies: B a iies: C 3. 4. ension: A	Eventually retain 3. a c	5. 6. b 5. 6.	highl fortho 4. d	ighting coming a	7. 5.	a	р. 39 р. 39		

	ing Comprehe								р. 43
2.				tion is one techn			-		
3.	v		00 Fath	oms, It Came fr	om Ben	eath the	<i>Sea</i> , an	d 20 Mi	llion
4	Miles to Eart		(<u>C</u> 1		T 1 1	17	1.1	1 4	
4. 5.	Peter Jacksor		of Sind	ad, Mysterious	Istana, a	and <i>Jase</i>	on ana ti	ne Argoi	nauts.
<i>5</i> . 6.	Lifetime Ach		nt						
0. 7.	15		iii						
8.	Willis O'Brie	en							
0.									
Read	ing Skill: Uses	of the l	Present	t Tense					p. 44
Appl									
1.	used, H		5.	created, H		9.	used,		
2.	has, C		6.	move and be	have, C	10.	crowe	ded, H	
3.	faced, H		7.	design, C					
4.	called, H		8.	animate, C					
Voca	bulary Activit	ies: A							p. 45
1.	c	2.	a	3.	с		4.	b	
Voca	bulary Activit	ies: B							p. 4
2.	Int			4.	T (elei	<i>ments</i> is	the obje	ect)	P
3.	T (prey is the	object)		5.	Int		J		
•	1 1								
v oca 1.	bulary Activit	3.	e	5.	f		7.	d	p. 46
1. 2.	g	3. 4.	b	5. 6.	C		7.	u	
2.	8	т.	U	0.	C				
Voca	bulary Activit	ies: D							р. 47
1.	adjustments		4.	subordinate		7.	final		
2.	forthcoming		5.	component		8.	bond		
3.	retain		6.	vision, schen	ne				
Vaaa	hulow A stirit	ing F							n 10
	bulary Activit es will vary.	les: L							p. 48

Unit 4: The Power of Music

Read 1. 2.	ing Compr F 3. T 4.	. F	7	5. 6.	F F	7. 8.	F T				p. 52
Read i 1. 2.	ing Comp r 24–26 39	3	on: B 3. 4.	46–47 66–67		5. 6.	68– 97–			p. 52	
	ing Skill: F	Finding	the l	Perpetr	ator						p. 53
Apply 1. 2.	the brain the brain	3 4		nature nature		5. 6.		nown lication	7. 8.	artists scienti	sts
Vocal 1. 2. 3.	bulary Act fundamer primed conferenc	ntally	A	4. 5. 6.		ndation sical smit		7. 8.	dimin incorj	ish porates	p. 54
	bulary Act	ivities: 2		с		3.	0				p. 54
1. Voca 1.	bulary Act				3.	с.	a 4.	a	5	5. е	p. 55
	bulary Act				2						p. 55
1.	d	2.	а		3.	С	4.	e	5	5. b	
	ing Compr			D		~			7	D	p. 59
1. 2.	E B	3. 4.		B A		5. 6.	A E		7. 8.	BA	
Read Apply 1. 2. 3.	ing Skill: P y Insert, Ins runs guitarist,	sert, rui	1	ifier							p. 60

4. is plucked, is transmitted, is delivered, is converted

61

p. 61

11

Answers will vary. Possible answers:	
Its opening: a saddle to transmit vibrations: wooden	sides

Its opening; a saddle to transmit vibrations; wooden sides of the body to vibrate the air inside and create an echo; the shape and dimensions of the guitar body; a strengthened neck to use steel strings

Vocabulary Activities: A					р. (
1. theoretically	3.	stress	5.	refined	
2. manipulated	4.	projecting			

Vocabulary Activities: B

Review a Skill: Cause and Effect

- 2. The teacher stressed that we should read Chapter 5 very carefully.
- 3. Assigning too many tasks at once can be stressful.
- We must place greater stress on opening new markets for our products. 4.
- The psychologist stressed that multitasking is not a reliable strategy for saving 5. time.
- The student felt a lot of stress from working and going to school at the same time. 6.

	Vocabulary Activities: C Discussions and paragraphs will vary.												
Voca Proje	bulary	Activit	ties : D						p. 62				
1.	a ipulate	2.	b	3.	b 4. c	5.	d	6.	a				
1.	d, c	2.	а	3.	b 4. c	5.	с	6.	d				
Vocabulary Activities: E1.theory, confer2.intrinsic3.diminishing6.				5.	fundamentals intrinsic refined	7.	fundai	mental	p. 63				

Unit 5: Sensory Perception

Read	ing Con	ıprehei	nsion						p. 68		
1.	F	2.	Т	3.	Т	4.	F	5.	F	6.	Т
Apply	ers will What e What i	vary. Po entities is the bo		answers ng categ the cate	on?	p. 68 Acoustic guitars. The material used to make the strings. Yes.					
3.	What i	s the bo	are beir isis for i ories mi	the cate	on?	Non-offensive odors. The type of material producing the smell. No. Some odors may seem a mixture.					
4.	What i	s the bo	are bein usis for t pries mi	the cate	on?	Odors. The way the odor feels in our nose. No. Some odors may seem a mixture.					
5.	What i	s the bo	are bein usis for t ories mi	the cate	on?	Odors. Pleasantness. No. Pleasantness may depend on context.					
Apply	ing Skil y B ers will		gorizing	5							p. 69
Apply	ing Skill y C ers will		gorizing	5							p. 69
Voca 1. 2.	6							mal gory	7.	dime	_
Voca 1.	bulary A Plus	Activiti	es: B 2.	Likew	vise	3.	Plus		4.	Plus	p. 70
Voca 1. 2.	bulary A entity dimens		es: C 3. 4.	param dimen		5. 6.	-	meters	7.	entiti	p. 71 es

Before You Read

Before You Read							p. 72			
Answers will vary. Possible a										
bang: a door	ding d	long: a c	loorbell		splash	: water				
caw: a crow	peep:	peep: a baby chick tick: a clock								
chirp: a canary	pop: a	pop: a balloon breaking thump: the heart								
clang: a fire engine bell	quack	quack: a duck wheeze: a cough								
click: a computer mouse	roar: a	roar: a lion whirr: a propeller								
clunk: metal	rumbl	rumble: thunder whoosh: the wind								
crack: glass	rustle	rustle: leaveswoof: a dogslurp: a milkshakezip: a zipper								
crunch: snow	slurp:									
Reading Comprehension							р. 75			
1. T 2. F	3.	F	4.	Т	5.	F	6. T			
Review a Skill: Point of Viev	W						p. 75			
It changes from not indicating	g who t	he perpe	trator is	s to givin	ng instr	uctions.				
Reading Skill: Interpreting	Charts	s, Table	s, and (Graphs			р. 75–76			
Apply A										
1. 376,000	3.		000 uni	ts	5.	54,828				
2. 4,416,000	4.	not pro	ovided		6.	278,540)			
Answers will vary. Possible a										
7. Between 2004 and 200					993,000).				
8. In 2008, iPod sales rea										
9. Between 2008 and 202	10, i Po	d sales d	ecrease	d by 4,5	13 mill	ion units.				
Reading Skill: Interpreting	Charts	s, Table	s, and (Fraphs			p. 76			
Apply B										
The chart will be labeled in th										
1. (120 Hz) a man's spea	-									
2. (220 Hz) a woman's s	- '	g voice								
$3. \qquad (440 \text{ Hz}) \text{ the musical r}$										
4. (20,000 Hz) highest fr	-	•	ns can h	lear						
5. $(30-35 \text{ Hz})$ the lowest										
6. (20 Hz) the lowest free				ar						
7. $(about 4,000 \text{ Hz})$ the h	nighest	musical	note							
Vocabulary Activities: A	_						p. 77			
1. cycles	3.	concu	•		5.	identica	l			
2. stable	4.	princip	pal							

14

Voca 1.	bulary A a	Activitie 2.	es: B a	3.	b	4.	а	5.	а	6.	p. 78 b
Vocabulary Activities: Cp.Answers will vary.											
Voca 1. 2.	bulary A princip stable	pal	es: D 3. 4.	minin unifie		5. 6.	cycle cyclica	al	7. 8.	concur minim	•

Unit 6: Boom and Bust

Readi 1.	ing Compre T 2.	hension F	3.	F	4.	F	5.	Т	6.	р. 84 Т		
Reading Skill: Describing Trendsp. 85ApplyAnswers will vary. Possible answers:												
Answe 1. 2. 3.	rose grow climbed	. Possible a 4. 5.	answer grew incre		6. 7.	topp decl	bed lined	8. 9.		opped immeted		
Vocabulary Activities: Ap. 861. security4. attitudes7. estate, commodities2. infrastructure5. file3. secure6. trendiest												
1. 2.	b a	3. 4.	b b		5. 6.	a b		7. 8.	a a	p. 87		
	oulary Active ers will vary									p. 87		
Readi 1.	i ng Compre F	hension 2. T		3.	Т	4.	F		5.	p. 90–91 T		
 Review a Skill: Uses of the Present Tense p. 91 Answers will vary. Possible answers: In his book <i>Tulipomania</i> (1999), Mike Dash agrees the Dutch tulip market was a speculative bubble driven by inexperienced investors. But he also reveals why rational people might have become caught up in it. Mackay also neglects to mention the Thirty Years War in Europe. 												

Reading Skill: Summarizing and Reporting												p. 91	
Lea	rn A												
1.	Ν	2.	Ν	3.	А	4.	Ν	5.	Ν	6.	А		

Reading Skill: Summarizing and Reporting Apply A

Answers will vary. Possible answers:

- 1. Line numbers 106-116; Mike Dash's work: The tulip market was a speculative bubble driven by inexperienced investors; in addition, the beauty of some rare varieties and the length of time that it took to increase the number of rare bulbs caused an increase in value.
- 2. Line numbers 138–156; Thomson and Treussard's work: The bubonic plague, the Thirty Years War in Europe, and government policies allowing buyers to default on their contracts affected the prospects for profit and loss in the tulip trade.

-	r y Activiti cific pose	es: A	3. 4.	underly accurat	U	5. 6.	p. 92–93 ideologically compound					
Vocabula	•								p. 93			
1. d	2.	a		3. t)	4.	С					
Vocabulary Activities: Cp. 94Answers will vary. Possible answers:2.2.Autumn leaves can symbolize approaching old age.3.A raven might represent death or the fear of it.4.A deep, cold lake might stand for something unknown and mysterious.5.A bright yellow tulip denotes renewal or hope.												
	oright yello single wolf	1			1		tion on	disolat	on			
	listant mou	0		0		-		u isolat	IOII.			
Vocabular 1. unc			filed dispose		5. 6.	specific	2	7.	p. 94–95 norms			
Vocabular Stories wil	•	es: E							p. 95			

Unit 7: Decisions, Decisions

Readi 1. 2.	ing Comp T T	rehens i 3. 4.	ion: A F F	5. 6.	T T	7. 8.	T F	р. 100					
Readi 1. 2. 3. 4. 5.	 That much is straightforward. We think about what we've learned, and eventually It has the drawback, however , that it operates The adaptive unconscious can be thought of as a kind of giant computer 												
Reading Skill: Evaluating Generalizations p. Apply													
Арріу 1.	S	2.	Т	3.	Т	4.	S	5. N					
			0	and Repo writers an	0	chers.		p. 101					
Vocabulary Activities: A1.deduce3.options2.adapt4.response6.imply													
Vocabulary Activities: Bp. 103Answers will vary. Possible answers:2.2.people won't get colds if they eat oranges.3.people will perform better on tests after drinking a small amount of coffee.4.we can deduce that people who lose just one hour of sleep won't be as alert as they should be while driving.													
	bulary Ac ers will va		C : C					p. 103					
	bulary Ac ers will va		D					p. 103					
Readi 1. 2.	ing Comp T F	rehens i 3. 4.	ion T F	5. 6.	F T	7.	Т	p. 106					
	-	Unders	tanding	g Analogie	es			p. 107–108					
Apply 1.	A	2.	Ι	3.	Ι	4.	А						

Vocabulary Activities: A

- 1.thesis4.consensus; conform2.excluded5.implications
- 2.excluded5.Implications3.statistically6.Nonetheless

Vocabulary Activities: B

Answers will vary. Possible answers:

- 1. The mayor was implicated in a scheme that misused public funds.
- 2. What are some implications of the city's plan to expand the airport?
- 3. **He objected** to the article's implication that he caused the city's financial crisis.
- 4. **Corrupt building inspectors were implicated in the building's collapse.**
- 5. The report implies that the city council is not working hard enough.

Vocabulary Activities: C

Answers will vary. Possible answers:

- 1. In *Blink*, Malcolm Gladwell claims that we underestimate the accuracy of snap judgments and first impressions.
- 2. In *The Wisdom of Crowds*, James Surowiecki argues that collective judgments can be quite accurate under certain circumstances.

Vocabulary Activities: D p. 1												
1.	mode	3.	consent	5.	adapt	7.	conform					
2.	statistics	4.	response	6.	options	8.	enforcing					

Vocabulary Activities: E

Answers will vary. Possible answers:

- 2. She adapted quickly to the changing situation at work.
- 3. The university collected statistics on how many students changed their major after their first year.
- 4. The city council elicited a favorable response when it announced plans to develop a new recreation program for the elderly.
- 5. You must obtain the consent of the university before changing your major.
- 6. Your only option is to conform to the standards of the university community if you wish to have your research project approved.

18

p. 108–109

statistical

7.

p. 109

p. 110

Unit 8: Searching for Success

	ing Com	-			_	-	-	T			p. 117	
1.	F	3.	Т			F	7.	Т				
2.	Т	4.	F	(5.	Т	8.	F				
Reading Comprehension: Bp. 12.It "crawls" the web to rank pages.3.Google was founded in 1998.4.No, it didn't.5.IPO stands for Initial Public Offering.6.No, it didn't.												
Apply	i ng Skill y A ers will v Yes	vary. Pos	sible an		: Yes	7.	Yes	9.	Yes 11	1	p. 118 ?	
1. 2.	Yes			5. 6.	Yes	7. 8.	No	9. 10.	?	1.	-	
											p. 118	
Vocal 1. 2.	bulary A founde constar	d		3. 4.	comp form			5. 6.	relevant edited		p. 119	
Vocal 1.	bulary A a	ctivities 2.	:В е		3.	с	4.	b	5.	d	р. 119 I	
	bulary A ers will y			swers	:						p. 119	

Answers will vary. Possible answers:

- 1. The researchers called at a time when most working people are not home. Candidate B was more popular among working people. Candidate A may have appealed more to older, retired people.
- 2. No. We need to know whether the average age of the populations in those states is the same. As it turns out, Utah has a much more youthful population than Florida, a popular place for retired people to live. Retired people are more likely to suffer from arthritis, so the sample is biased.

Vocabulary Activities: D

Answers will vary. Possible answers:

- 1. No. Driving is a specialized motor skill, but parenting requires no specialized motor skill training. It is easy to demonstrate driving ability in a short test. Parenting would be much more difficult to test fairly.
- 2. No. Children only attend school for a portion of their day and have days and weeks off, whereas prisoners typically spend 24 hours of every day in prison. Requiring someone to stay in a location for a part of a day is not the same as imprisonment. Compulsory schooling is mandated by law and upheld by courts, so the action is legal.
- 3. No. Secondary smoke can directly bother non-smokers. Non-eating pedestrians suffer no ill effects from those eating. The argument overlooks the fact that eating and drinking are restricted in areas where they can harm buildings, furnishings, and equipment.

Reading Skill: Determining Degree p. 1 Apply A	24
Appry A 1. A 2. C 3. A 4. C 5. C	
Reading Skill: Determining Degreep. 1Apply BAnswers will vary.	24
Reading Skill: Determining Degreep. 1Apply CAnswers will vary. Possible answers:	24
Answers will vary. Possible answers. 1 Are the company's products and services typically used to cheat people?	

- 3 Does the company disclose its policy on scanning of all email coming and going through Gmail?
- 2 Can the company do anything to prevent government surveillance of users?
- 5 Does the company monitor for click fraud?
- 4 Are copyright holders notified before their work is scanned and digitized?

Reading Skill: Determining Degree Apply D

p. 124

Answers will vary.

	ill: Categorizin vary. Possible a not policing cli scanning and d compromising	inswers: ck fraud igitizing	books	l		р. 125		
Ethical	buying YouTu analyzing ema data mining en	l to trigge						
Both								
Vocabulary1.poten2.formation		-	distributed scope	5 6.	investig clarify	p. 125 ation		
•	Activities: B tigative 3. 4.	constant clarify		relevance format		p. 126 clarification formulated		
Vocabulary 1. e	Activities: C 2. c	3.	. b	4. a	5.	p. 127 d		
Vocabulary Answers will	Activities: D vary.					p. 128		

Unit 9: Modeling Nature

Rea	ading Con	nprehens	ion: A					р. 133	
1.	F	-		5.	Т	7.	Т	•	
2.	Т	4.	F	6.	F				
Rea	ading Con	nprehens	ion: B					р. 134	
Fro	m The Swe	arm Bots	Are Com	ing:					
1.	line 7:	Thus, an	ts provid	e an exce	llent ill	ustration o	f how sin	ple devices can	
	achiev	e comple	x results						
2.	line 15	5: Consid	er the wa	y ants for	age.				
3.	line 20	5: This ro	ute-findi	ng capabi	lity is re	emarkably	handy.		
Fro	m Social I	Robots:							
4.	4. line 31: Several of Hanson's robots are incredibly lifelike.								
5.	line 65	5: And of	course th	ne robots :	must be	able to sp	eak and g	give relevant	
	respor	nses.				-	-		
	1								
Rea	ading Skil	l: Analyz	ing Adv	antages a	nd Dis	advantage	es	р. 134	
Ap	ply Ă	·				0		-	
-	swers will	vary. Pos	sible ans	wers:					
Ad	vantages	•			Di	sadvantag	ges		
giv	es employ	ment to s	everal pe	ople		ofits divide	-	e people	
0	be used in		-	-				d by weather	
use	s normal e	lectrical	olugs			esn't work		•	
		1						2	

Reading Skill: Analyzing Advantages and Disadvantages Apply **B**

p. 135

Answers will vary. Possible answers:

Solutions	Advantages	Disadvantages
ant algorithms	can solve complex logistical	limited applications
	problems	
	can adapt to new situations	
robots that look	are obviously machines, so	can make people feel
non-human	people needn't worry about	uncomfortable
	making them work too hard	
robots that look	humans more willing to interact	people could have unrealistic
human	with them	expectations of human behavior
		and social interaction from the
		robots

Vocabulary Activities. A

Voca	bulary Activities: A					p. 135–136
2.	shift	4.	bulky	6.	method	
3.	methodically	5.	consist			

Voca 1.	abulary a	y Activ	vities: 3		ı		5.	b		7	1.	b	p. 136
2.	a		4				6.	b		,		0	
Read 1.	ling Co T	ompre 2.	e hensi o T	on: A 3.	Т	4.	F	5.	F	6.	F	7.	р. 139 Т
	ling C overs wi	-		on: B ible ans	swers	:							p. 139
2.			i was a	mecha	anical	child	that cou	uld writ	e with	n a pen.	It was	s buil	t in
3.		nelm L	eibniz l syste		e phil	losoph	ner who	specul	ated tl	hat the	brain v	vas a	
4.	Kare	el Cap	ek was	Czech									
5. 6.							e humai		it wo	uld tak	e abou	t 20 y	years to
0.							uman b	-	n wo	uiu tak	c abou	1 20	years to
7.			hinks e by 20		e can e	expect	to see	a machi	ne wi	th hum	an-lev	el	
Read Appl	-	kill: Id	entify	ing Etl	hics a	nd Va	alues						p. 140
	•	ll vary	. Possi	ible and	swers								
enco kindi		prom	ote, oi	· increa	ase:			ourage	e, prev	vent, o	r decre	ease	
	fulness						0	orance tefulne	SS				
Read App	0	xill: Id	entify	ing Etl	hics a	nd Va	alues						p. 141
1.	d		2.	e		3.	b	4		с	5.		a
App	ly Č		-	ing Etl			alues						p. 141
Ansv	vers wi	ll vary	. Possi	ible and	swers								

Answers will vary. Possible answers:

- Being able to redesign ourselves could help humans eradicate most if not all 1. diseases.
- 2. This kind of change would threaten food supplies and resources all over the world as population growth exploded. People would stop cooperating and sharing. This might lead to mass riots and chaos.

Review a Skill: Analyzing Criteria

Answers will vary. Possible answers:

Ideas from the readings: The robot should be able to understand human moods and react sympathetically. The robot must look similar to humans. The robot should make facial expressions in response to how people around it behave. The robot should have an "authentic" smile. The robot must be able to speak and give relevant responses. The robot could have vision, touch sensitivity, pattern recognition, decision-making, world knowledge, fine motor coordination, and even a measure of common sense. Other ideas: Answers will vary.

Vocal 1. 2.	proceeds notion	es: A 3. 4.	comprise code	5. 6.	documer encoded		7. 8.	p. 1 proce capac	
Vocal 1.	bulary Activitie b 2.		3. a	4.	b 5	5.	b	6.	p. 142 a
Vocal 1. 2.	bulary Activitie code capacity	es: C 3. 4.	project procedures	5. 6.	notion bulk		7.	p. 1 shift	42–143

Unit 10: The Mystery of Easter Island

Read i 1.	ing Compr T	ehensi 2.	on: A F	3.	F	4.	Т	5.	р. 149 F		
Readi 2. 3. 4. 5.	 3. Roggeveen himself quickly recognized 4. Pollen analysis shows that during the early years of Polynesian settlement, 5. With fewer food sources, Easter Island could no longer feed the chiefs, Reading Skill: Identifying Multiple Causes p. 150 										
	U	dentify	ving Mult	iple Ca	uses				p. 150		
Apply		T Door	ible onew	0* 0 •							
Answ 2.	ers will van The Easte				used for i	naking slea	ds to mo	ve statues a	and for		
2.	building		A		1964 101 1	naking sie		ve stataes t			
3.	0			for mal	king chis	els to carv	e the stat	tutes from s	softer		
	rock.										
4.	-	-		U	0	make the st	tatues. Tl	he material	had to be		
5.		0	arve with a			nulation an	d a comr	olex social	structure		
5.					0 1 1	ve the hun	-		structure.		
	0.1	1									
	ing Skill: I	dentify	ving Mult	iple Ca	uses				p. 150		
Apply		. Dece	ihle energy								
Answ 1.	ers will var	•			ion of st	atue buildi	ng on Fa	ster Island	were the		
	f the palm						0				
	the reducti				-				·		
	oulation to										
2.					+			aster Island			
	f the palm t fe diminish					-	opulatio	n by fishing	g, isiallu		
** 11411		icu ub u		100 u , u	ing cuilli	Cullotti.					

Voca	bulary Activities	s: A					р. 151
1. 2	collapsed ceased		4. 5.	0		s/incessant s/incessant	
3.	transported		6.	cite	couscies	5, 11100 55 4 110	
Voca	bulary Activities	s: B					p. 151–152
1.	а	2. b		3.	b	4.	b

Vocabulary Activities: C

Answers will vary. Possible answers:

- 1. Diamonds are extremely hard crystals derived from carbon either through natural or synthetic processes.
- 2. Paper is derived from a pulp made from plant fibers.
- 3. Plastics are derived from synthetic polymers. The word *plastic* is derived from the fact that this material can be formed into shapes.
- 4. Silk is derived from cocoons made by silkworm larvae.
- 5. Cocoa is derived from seeds of the cacao tree.
- 6. The word *salary* is derived from the Latin word for salt.

Vocabulary Activities: D

Answers will vary.

Read	ling Co	omprehension: A							p. 156
1.	Т	2. F	3.	F	4.	Т	5.	Т	

Reading Comprehension: B

- 1. Around 1200.
- 2. Later.
- 3. By about 1500.
- 4. There is general agreement on the date.
- 5. In 1805.
- 6. No.

Reading Skill: Synthesizing Information from Several Sources p. 157 Apply A

Condition	Diamond	Hunt and Lipo	Both
Polynesian colonists began to arrive on Easter Island around the year A.D. 1200.		X	
Forests were destroyed to support agriculture.			X
The destruction of forests played a major role in the population's decline.	X		
Rats contributed to deforestation.			X
The island's population peaked at somewhere between 7,000 and 20,000.	X		
The statues could have been constructed by smaller tribal groups.		X	

p. 152

p. 152

The island is littered with around 700 statues that were never completed or erected.			X
Destructive civil wars broke out on the island that left the culture in a weakened state.	X		
The most severe decline in the island's population occurred as result of disease and forced migration caused by contact with outside societies of Europe and Latin America.		X	
The island was functioning smoothly when Europeans first arrived.		X	

Reading Skill: Synthesizing Information from Several Sources p. 157 Apply B

Answers will vary. Possible answer:

The history of Easter Island remains mysterious, but scholars agree on several points. All agree that massive deforestation occurred and that both rats and agriculture contributed to the loss of forests. They also agree that statue construction ceased before the Europeans arrived, and around 700 statues were never completed or never erected. All agree that by the 1860s the once-substantial population had declined greatly.

Voca 1.	bulary Activit	ies: A a	3.	a 4.	a	5.	b	6.	р. 158 b
Voca 2. 3.	bulary Activit confirmed confirmation		4. 5.	denied concepts		6. 7.	wide cited	spread	p. 159
Vocabulary Activities: C									p. 160

Vocabulary Activities: C

Answers will vary. Possible answers:

- He doubts the validity of the anthropologist's claim. 2.
- 3. The papers quoted several authorities who confirmed the claim.
- 4. The researchers made an incessant effort to validate their theory.
- They deny the role of speculation in the stock market's collapse. 5.
- 6. The critics made some valid complaints. Nevertheless, this concept is widely accepted.
- 7. The fact that they ceased transporting the statues is evidence that the culture had collapsed.