



Contents

Introduction

Unit 1 Animals: Working Together

Lesson 1	Busy Bees	10
Lesson 2	Naked Mole Rats	18
Review	Connecting Lesson 1 and Lesson 2	26

Unit (2) Technology: Revolution in Agriculture

Lesson 1	The Little Bit	30
Lesson 2	Plowing Ahead	38
Review	Connecting Lesson 1 and Lesson 2	46

Unit 3 Arts: Graffiti

Lesson 1	Art or Vandalism?	50
Lesson 2	A Mysterious Artist	58
Review	Connecting Lesson 1 and Lesson 2	66

Unit **4** Health: Your Liver & Your Kidneys

Lesson 1	You Can't Live Without Your Liver!	70
Lesson 2	Filtering Beans	78
Review	Connecting Lesson 1 and Lesson 2	86

Unit (5) People and Culture: East Germany

Lesson 1	East and West	90
Lesson 2	The Trabant	98
Review	Connecting Lesson 1 and Lesson 2	106





210

Unit 6	Our Earth: Freak Weather	
Lesson 1	Nature's Most Violent Storms	110
Lesson 2	Thunderstorms	118
Review	Connecting Lesson 1 and Lesson 2	126
Unit 7	Business: Ingenious Marketing	
Lesson 1	Product Placement	130
Lesson 2	The Tupperware Story	138
Review	Connecting Lesson 1 and Lesson 2	146
Unit 8	Careers: The Built Environment	
Lesson 1	Architecture as a Career Path	150
Lesson 2	Bridges, Roads and Buildings	158
Review	Connecting Lesson 1 and Lesson 2	166
Unit 9	History: The Conquest of the Americas	
Lesson 1	A New World?	170
Lesson 2	The Fall of the Incan Empire	178
Review	Connecting Lesson 1 and Lesson 2	186
Unit 10	Architecture: Modern Construction	
Lesson 1	Building Your Own Unique Home	190
Lesson 2	The Burj Khalifa	198
Review	Connecting Lesson 1 and Lesson 2	206

Word List



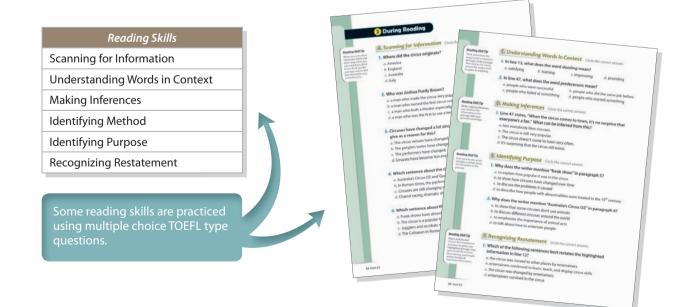
1. High-Interest Passages

The Reading Planet series features an exciting array of non-fiction content. Each reading passage provides students with a balanced and informative look at a range of subjects, such as animals, technology, arts, business, and history.



2. Effective Reading Skill Practice

Various reading skills are practiced repeatedly throughout the series so students can consolidate their reading skills step by step.



Identifying Main Ideas Sequencing Compare and Contrast	Mainech	te the chart.	After the Fall of the
	Main acts		
Compare and Contrast		Main acts included chariot racing.	Main acts included
compare and contrast		and	The venues are now public spaces and
Classification			
Identifying Cause and Effect		inizing Information: Seq	uencing
Identifying Fact and Opinion	And Born Tim	an - The art form of the	incusi
Identifying Fact	A23 Rom Tim	an - The circus was kept	
dentifying Ideas For and Against	340		in
	18	Joshua Purdy Brown	used aas a
	19 Cent		was in America.
Some reading skills are practiced using graphic organizers so they	Mod		ere criticized for
can be understood easily.		•	

3. Cumulative Vocabulary Practice

Each target word is practiced five times throughout the student book and the supplementary vocabulary worksheet. This cumulative practice will help students to acquire the new vocabulary easily.

Artis: The Circus	3 After Reading	Are The Crost
	A Vocabulary Process: A vocabulary	2. VOCADURATE ALEVIANA ACCONSIDENT ALEVIANA MARINE ALEV
III. Key Vocabulary and a the weak is bold rape with the first mean of an an analysis is a second of a second of an analysis is a second of an analysis is a second of a second of an analysis is a second of a second	1. An open	A Landow

4. Systematic Four-skills Practice

All four language skills (reading, writing, listening, speaking) are practiced in every unit so students can improve their English as a whole.

Reading Plane

Unit Structure

1. Unit Opening

Colorful pictures and illustrations not only grab students' attention but also get them interested in reading.



2. Two Consecutive Lessons

In each unit, students read two related passages from the same subject area. They provide students with contentbased vocabulary and, at the same time, help students develop greater understanding of the topic.



For over this years, goops of scientists have goest their summers surking on the boase mbeauses of Antentics and Generation. Their task has been to did into their global for east and extract long, of inductor process of ice. By doing this they hope to learn about the annuch holzy of the Earls. Some is core of this global tables points: have proved of information out Earlbh Charles did a start, Same is an annual table points: have induced information out Earlbh Charles did points in a new too the scientific say this information in their their sciences and the sciences.

The levels solution are core of billing in **Marky** simple, for your, some table is alphanes that Generalized and American. In three projects in this call Birth there also solven it reft. Over this when there more product allows the eld spece, and the old smoot tarers that is . This = process: continues gains af her your, until happs for batters are fourned at a most places where the birth has also called any allow gains and commonst. Use there are some places where the locality has been the solver also been as the solver. And place gains the locality has been applied by the two batters of Boostanets of places. And your gains a birt about wheth the darm used to gain local.

> When sever turns into ice, they all bubbles intern in dirac, visions exist, and gather? yet happed. Scientific and any can also made yet and all addess, and they can also made yet and all addess in the first and where it can be

Through detailed analysis, the scientism get a picture - shut the Leich along place was like at the time the a was family. Leich year by or for can show tengen production⁻¹ leich, while placema, and even clare to

> he findings from part drilling projects have revealed a mendings around of information. Scientisch kann is to ever the part. NBLOOD years the Earth has experienced ht ke appre, a well as edget soars portools—Bile the one are in new—called interglability. They aim discovered mapsarter connection between the amount of calloon obde to the attempthes and at temperature. The more hand indicated in the horter the unset loss. They are solved as the set of the temperature.

ligh was 446,000 years ago. It The tox defiling transic continues to look for deeper herts of tox in the hope of getting even more information toxe part temperature weeks. It Scientifics hope is, one rig, somethie data horn over a relificor year's worth of tox. Tays hope that the information home at this is an ell above.



Glossay Mining a second second

Review - Connecting Lesson 1 and Lesson 2

The unit review section provides students an opportunity to review and reinforce what they have read and learned.

	W Connecting Lesson 1 and Lesson 2 . Summary	2, Vos	ibulary	Reoleo	~			
Anadag Skill Tar	A. Main Ideas and Supporting Details Choose and write the four truin Ideas of each pessage	A. 0	rosswori	d Puzzle	Complete the pu	zże.		
ch para dest initiat shows the initiat shows the particular shows the dest part of the show part of the dest part of the dest part of the dest part of the dest part of the dest part of the dest part of the dest part of the dest part of the dest part of the dest part of the dest	These are the ment settement. 4. Aurons an one yoar was the Kirkh called pages much the North and South Plaiss. 5. Sortents have obtained to set frame information about Each through the defining pages). 5. Sone pages, this the same about horizonts about the Earth stronger at the time the loca was formed and, believed survess were gainst af 5. Sortents diff into the same about horizonts about the Earth stronger at the time the loca was formed. 4. When some times to loca just about balance, data, and palling price taggest. 4. Annose are numaric coloral light displays and are one of the most manifolds algebs on light. 5. Many analysis of the same about hybrid and the most manifolds 6. Annose are consolid to polision the horizon theorem, and 4. Annose are consolid to polision the horizon through particle from the fits and algement. In the Earth atmosphere. 5. Solventos thy through the algebraic const.		ilida ulyuk		socurrence ice age	sport data	solar revealed	spol
	Lessen 2 Summery: Mother Hasard Riveron.	Been	2. My wate 8. Tim goin 6. Many sp 5. I think b 5. The acto 7. Our exp	A runs on g to take these ecces became o o r removed her eccenents colle	samples away for estimat during the was wat thing ov mask and theil a list of	er 16.	_ Joape.	
		Acoust	R. My cloth Mr. There w HL. A Sarge -	was damaged les.can es a thin carthquake is a word may	dains, of water a mumunal	cous the whole	theid.	

Reading Plane

Lesson Flow



<page-header><section-header><section-header>

ing for In

ship do chimps h

os use rocks as a tool

1. Pre-Reading

Warm up Discussion

Discussion questions provide students with some background knowledge as well as an opportunity to predict what they are going to read.

Key Vocabulary

Twelve key words are introduced in each lesson.

2. During Reading

Various activities to practice reading skills

Reading skills are recycled throughout the series, so students can practice repeatedly and consolidate their learning.

Fact Files

Fact files not only provide additional information, but they also make the lesson more interesting.

3. After Reading

Vocabulary Practice

Key words are practiced in different activities.

Discussion

This activity provides students with a chance to express their personal opinions.

Writing Practice

In this activity, students' opinions are expressed in writing.



Unit 1

Animals: Working Together

Bees work together to collect food from a flower. Like humans, animals work together to help each other out.

Lesson 1 Busy Bees

Interesting Facts about Honeybees

- Honeybees have been around for 30 million years
- The honeybee's wings create the buzzing sound
- Honeybees can fly up to 10 km at 25 kmh
- Honeybees communicate by dancing
- Young honeybees are taught how to make honey by the older and more experienced honeybees

1 Pre-Reading

A. Discussion

- **1.** Answer and discuss these questions with a partner or as a class.
 - a. Why do you think the title is Busy Bees?
 - b. Do you often see bees in the area where you live?
 - c. What kind of work do bees do?

2. Which do you think is true? Compare and discuss your answers.

- a. Worker bees are all male.
- **b.** Some bees don't have stingers.
- c. There is only one queen bee in a beehive.

B. Key Vocabulary

Look at the words in bold type in the following passage. Write each word next to its definition. (Write the base form of the verbs and the singular form of the nouns. Adjectives and adverbs should not be modified.)

Т

Т

Т

F

F

F

- 1. _____ to become an adult
- **2.** ______ as a group
- 3. _____ a flower or group of flowers
- 4. _____ the home of a group of bees
- 5. _____ to emerge from an egg
- 6. _____ the sweet liquid that is produced by flowers
- 7. _____ very carefully; softly; without weight
- 8. _____ a sharp part of the bee's body that is designed to go into skin and cause pain
- 9. _____a small particle
- **10.** ______ to hit
- **11.** ______ the powder that comes from flowers used to make new flowers
- 12. _____ creatures living together with roles, norms, and rules

Busy Bees

🔄 Track 01

A black and gold honeybee walks **delicately** over the surface of a clover **blossom**. **Grains** of clover **pollen** attach themselves to her legs, and she quickly flies on to the next flower. Why is she so busy? It's because she is collecting food for her family. **Beehives** contain worker bees, drone bees, and a queen bee, but only the oldest

⁵ workers leave the hive to find food. This busy female honeybee is a small part of a much larger social structure.

In the social structure of a beehive, worker bees are very important. Depending on their age, the workers must clean the hive, feed the larvae, build and repair the hive, and collect food. The youngest workers take care of the cleaning and feeding, and

¹⁰ the middle aged workers make beeswax for hive building and repair. Meanwhile, the oldest workers, called foragers, are outside the hive collecting food. Despite their specialized jobs, all workers band together to defend the hive. Likewise, all workers process pollen and **nectar** to make honey and other bee foods. Lastly, some special workers lay eggs. These eggs **hatch** into drones.



Fact File

Humans have kept bees in artificial hives for a long time. Recently, archeologists discovered a picture on the walls of an Egyptian temple that shows workers blowing smoke into beehives. They say that this picture was drawn over 4,400 years ago.

Animals: Working Together

¹⁵ Drones are male bees and they are bigger than the workers. They do not collect pollen or take care of the hive. They cannot even defend the hive because they don't have stingers! A drone's only job is to breed with the queen so she can produce eggs. The eggs hatch into worker bees

²⁰ or new queens. There are about 200 drones in a typical summer beehive, compared to about 40,000 workers.

The queen bee is the center of all hive life. There is only one queen and she is the mother of every bee in the hive. All the other bees live to serve and protect her. The queen

- ²⁵ is much bigger than the other bees. She lives at the hive's center and spends her time laying eggs. She is fed and cared for by worker bees. Most of the eggs she lays develop into worker bees. Sometimes though, she lays an egg that becomes a new queen.
- ³⁰ When a queen larva **matures** into a new queen bee, she, along with a large group of worker bees, leaves her old home to start a new hive elsewhere. The new hive will function like the old one with workers, drones, and the queen all working together to keep everything running ³⁵ smoothly. It's amazing, and scientists still don't know how the bees understand their roles.

The way that bees organize their society is very interesting. Individually they are small and vulnerable, but **collectively** they can deal with many threats and ⁴⁰ environmental conditions. The next time you see a bee, please don't **swat** at it. Remember that they are working hard to feed their family. 458 words



Bees have a very important relationship with flowers. Flowers give the bees food, and bees help new flowers grow.



Bees collect nectar and turn it into honey. Here the bees store the honey in honeycombs.



Ouch! When bees feel threatened, they may use their stinger to protect themselves.

Fact File

In the last 10 years, bees have been disappearing in many places. When scientists investigated the disappearance, they found the hive and the queen but no bees. They call this *colony collapse disorder* and it is very worrying.

2 During Reading

<u>Reading Skill Tip</u>

When you scan, don't read every word, and don't stop when you see a word you don't know. Read quickly and stop only to find the information you are looking for.

A. Scanning for Information Circle the correct answer.

1. Which bees leave the hive to find food?

- a. the queen bees
- b. the youngest workers
- c. the middle aged workers
- d. the oldest workers

2. What do drones do?

- a. They clean the hive.
- *b*. They breed with the queen.
- c. They defend the hive.
- *d*. They build and repair the hive.

3. What happens when there is a new queen?

- a. The new queen leaves the hive to start a new hive.
- b. The old queen leaves the hive to start a new hive.
- c. The new queen and the old queen fight.
- d. The new queen becomes a worker.

4. Which sentence about bees is true?

- a. Drones are smaller than workers.
- b. The queen is much smaller than the other bees.
- c. Drones don't have stingers.
- d. Bees use honey to build and repair the hive.

5. Which sentence about bees is NOT true?

- a. The youngest worker bees collect food.
- b. The queen bee is the mother of every bee in the hive.
- c. Drones are male bees.
- d. There are more workers than drones in a hive.

B-1. Identifying Main Ideas

Complete the chart using the options below. Write one sentence in each box.

	Main Idea			
Paragraph 2				
Paragraph 4				
	Options			
- The queen bee	is the center of all hive life.			
• Workers band	together to defend the hive.			
Some workers	lay eggs and they hatch into drones.			
 The queen bee's eggs develop into worker bees. 				
 Workers are very important because they do many different jobs. 				
Worker bees care for the queen bee.				

B-2. Organizing Information: Classification

Write the number under the correct heading. (Some answers are used more than once.)

Worker Bees	Drone Bees	Queen Bees					
① male							
(2) female							
③ process pollen and nect	ar to make honey						
④ live at the hive's center	④ live at the hive's center						
(5) breed with the queen							
(6) take care of the hive							
⑦ don't have stingers							
(8) lay eggs							
(9) collect food							

Reading Skill Tip

Every paragraph has a topic sentence. This sentence contains the main idea. Often, but not always, the topic sentence is the first sentence of the paragraph.

Reading Skill Tip

It is always possible to group different things according to their common elements. Try to put similar things together under the correct heading.

Reading Skill Tip

Think about how the target word is related to the topic of the passage. Then look at the words around the target word to guess its meaning.

Reading Skill Tip

While making inferences, vou combine the information in the passage with your general knowledge.

Reading Skill Tip

Reading Skill Tip Read carefully and

choose the restatement that best simplifies the

highlighted passage. Your goal should be to leave

the meaning unchanged and to include all

important information.

Read carefully and find out how the writer explains or accomplishes something in the paragraph.

C. Understanding Words in Context Circle the correct answer.

1. In line 8, what does the word larvae mean?

d. drones b. babies c. hive a. queens

2. In line 12, what do the words band together mean?

- a. work individually c. qo outside
 - b. sing together d. work together

D. Making Inferences Circle the correct answer.

- 1. Line 7 states, "In the social structure of a beehive, worker bees are very important." Why do you think worker bees are important?
 - a. They are all female.

b. They do most of the work.

c. They are the strongest.

- d. Their eggs hatch into drones.
- 2. Line 40 states, "the next time you see a bee, please don't swat at it." Why do you think the writer says that?
 - a. Bees are similar to people, with families, roles, and responsibilities, so we should respect them.
 - b. Bee stings can be dangerous, so it's important to leave bees alone and not try to kill them.
 - c. Swatting a bee can anger the gueen bee and this could create problems for a person.
 - d. Bees are very strong and swatting at a bee would not kill or hurt it.

E. Identifying Method Circle the correct answer.

1. How does the writer introduce the social structure of bees in the first two sentences of paragraph 1?

- a. by explaining why bees are so busy
- b. by describing a worker bee and its job
- c. by describing physical features of bees
- d. by explaining what happens when a bee moves from a flower

F. Recognizing Restatement Circle the correct answer.

1. Which of the following sentences best restates the highlighted information in line 26?

- a. The gueen bee feeds and cares for worker bees.
- b. Worker bees feed and care for the gueen bee.
- c. The gueen bee and worker bees take care of each other.
- d. The other bees take care of the gueen and workers.

3 After Reading

A. Vocabulary Practice Fill in the blanks.

_								
	hatched	blossoms	stingers	beehive	mature (v)	pollen		
	nectar	swat	grains	delicately	collectively	social structure		
1.	1. When bees sting, they leave their behind.							
2.	The mover		carried t	he lamp, so he	would not break i	t.		
3.	l think familie	es should make	e decisions _		<u> .</u>			
4.	4. The yellow powder in the flower is							
5.	5. After six weeks, the eggs and the babies emerged.							
6.	I like spring b	ecause the		on the tre	es look beautiful.			
7.	Those flies ar	e very annoyir	ng. I want to		them.			
8.	A long time a	ago, the most o	common		for hu	mans were tribes.		
9.	9. The sweet liquid in a flower is called							
10.	10. A colony of bees live in a							
11.	11. Children slowly into adults.							

12. There are billions of sand ______ on a beach.

B. Synonyms and Antonyms Fill in the blanks using the words in the box above.

1.	hit)=	4. inc	dividually	↔	
2.	roughly	↔	5. social	organization]=	
3.	particle)=				= synonym ⇔ antonym

C. Writing Practice Write your opinion and share it with your class.

I think the social structure of bees is (very interesting / not very interesting) because ____