

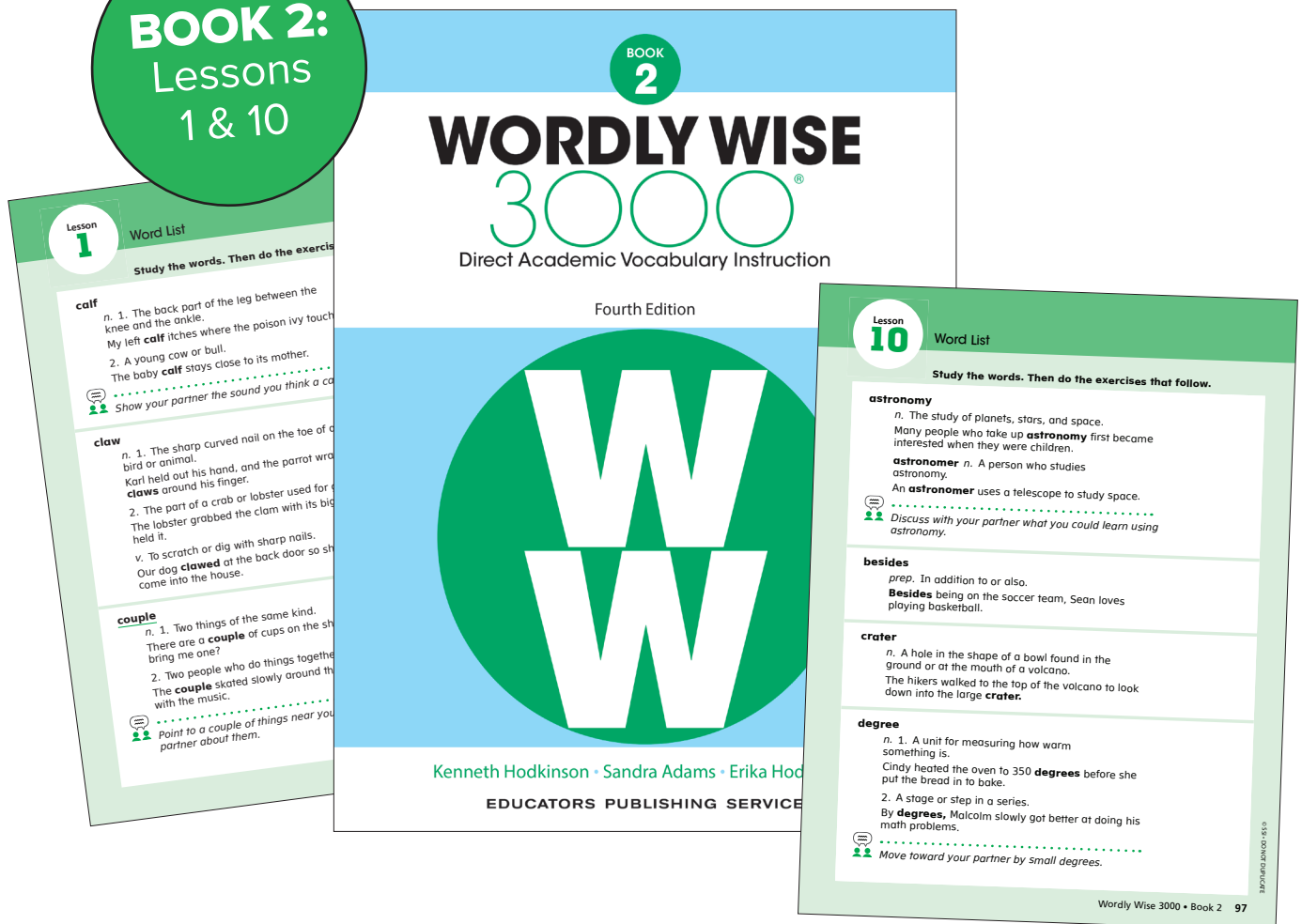
4th Edition

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Study the words. Then do the exercises that follow.

calf

n. 1. The back part of the leg between the knee and the ankle.

My left **calf** itches where the poison ivy touched it.

2. A young cow or bull.

The baby **calf** stays close to its mother.



.....

Show your partner the sound you think a calf might make.

claw

n. 1. The sharp curved nail on the toe of a bird or animal.

Karl held out his hand, and the parrot wrapped its **claws** around his finger.

2. The part of a crab or lobster used for gripping.

The lobster grabbed the clam with its big **claw** and held it.

v. To scratch or dig with sharp nails.

Our dog **clawed** at the back door so she could come into the house.

couple

n. 1. Two things of the same kind.

There are a **couple** of cups on the shelf. Will you bring me one?

2. Two people who do things together.

The **couple** skated slowly around the rink, moving with the music.



.....

Point to a couple of things near you and tell your partner about them.



cushion

n. A pillow or a pad with a soft filling.

Tammy rested her head on the **cushion** and soon fell asleep.



.....
Tell your partner about a cushion you have at home.

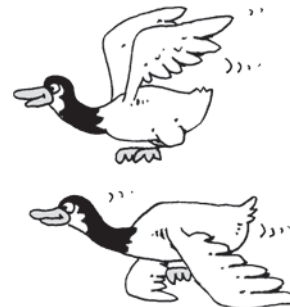
flap

n. Something attached on only one side so that it can move freely.

Colin licked the **flap** of the envelope and then pressed it down.

v. To move up and down.

We heard the geese **flap** their wings as they flew over the pond.



.....
Show your partner how to act like a bird flapping its wings.

groom

n. 1. A person who takes care of horses.

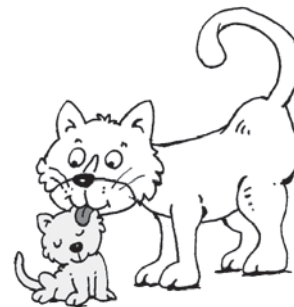
The **groom** led the horse out of the stall to brush it.

2. A man who is getting married.

The **groom** slipped the wedding ring on the bride's finger.

v. To clean or make neat.

The mother cat **groomed** the kitten's fur by licking it until it was smooth.



share

n. A part that each person gets of a whole.

Your **share** of the pizza will be two slices.

v. To use or enjoy with others.

My sister and I **share** a bedroom.



.....
Tell your partner about something you shared with a friend.

shelter

n. Anything that covers or protects.

Our dog looks for **shelter** under the bed when he hears thunder.

v. To give protection or safety to someone or something.

The small porch **sheltered** us from the rain.



yard

n. 1. The land around a building.

We lived in a house with a large **yard**.

2. A length equal to three feet, or thirty-six inches.

You need three **yards** of cloth to make your costume for the play.

zero

n. The word name for 0. It stands for nothing.

Three plus **zero** equals three.

1A

Words and Their Meanings

Look at the group of words next to the number. Then circle the letter next to the word that has the same meaning.

- 1 to move up and down
(a) claw (b) shelter (c) flap (d) groom

- 2 to use with others
(a) groom (b) claw (c) shelter (d) share

- 3 the word name for 0
(a) couple (b) zero (c) yard (d) calf

- 4 the land around a building
(a) yard (b) groom (c) claw (d) cushion

- 5 something that protects
(a) calf (b) shelter (c) zero (d) couple

Look at the word next to the number. Then circle the letter next to the group of words that has the same meaning.

- 6 claw
(a) a person who takes care of horses (b) the curved nail of a bird
(c) a length of three feet (d) the curved horn of a cow

- 7 calf
(a) a baby sheep (b) the arm between the hand and the elbow
(c) a baby horse (d) the back of the leg between the knee and the ankle

calf

claw

couple

cushion

flap

groom

share

shelter

yard

zero

- 8 couple
(a) a large number of things (b) a man getting married
(c) two things of the same kind (d) a woman getting married
-

- 9 groom
(a) to make clean and neat (b) to use with others
(c) to move up and down (d) to swing from side to side
-

- 10 cushion
(a) food for horses (b) a pad with a soft filling
(c) a feeling of happiness (d) a young cow
-

1B

Seeing Connections

Look at each group of words. Three are related in some way. Find the one word that does not belong and circle it.

- | | | | |
|---------|-------|--------|---------|
| 1 stool | wall | chair | cushion |
| 2 seven | two | too | zero |
| 3 pony | calf | elbow | knee |
| 4 bride | groom | apple | ring |
| 5 pair | two | couple | crowd |
-

1C

Applying Meanings

Circle the letter next to the correct answer.

- 1 Which of the following is equal to a **yard**?
 (a) twelve inches (b) a couple (c) three feet (d) zero

- 2 Which of the following could provide **shelter**?
 (a) a calf (b) a cushion (c) a claw (d) a cave

- 3 Which of the following has **claws**?
 (a) a groom (b) a crab (c) a calf (d) a shark

- 4 Which of the following might have a **flap**?
 (a) a tent (b) a couple (c) a bird (d) a swing

- 5 Which of the following cannot be **shared**?
 (a) money (b) shelter (c) toys (d) zero

	calf
	claw
	couple
	cushion
	flap
	groom
	share
	shelter
	yard
	zero



Bailey Finds a New Home

Sandra Adams and Ken Hodkinson live at Sugar Wood Farm in New Hampshire. They have a cat named Bailey. He did not always live with them. If Bailey could talk, he might tell you how he came to live with Sandra and Ken. Let's imagine he can.

.....

At first, Ken and Sandra didn't want me. Many times I waited outside their door for them to return home. I knew I had only a **couple** of seconds to make my move. So I would rub against Sandra's **calf**, purring loudly and looking up at her face. But Ken always said, "Don't let him in. Don't let him in." And they shut the door in my face.

It's true that I already had a home. But I had to **share** it with two other cats who liked to bully me. That was no fun. I wanted something better. Sugar Wood Farm was just around the corner, and I checked it out carefully. I counted the cats that lived there. The number I came up with was **zero**. As we cats say, "Purr-fect!"

Weeks went by, and it was the same every time. I hung around the door for hours, and Ken and Sandra always closed it in my face. But I never gave up. Then, one dark and stormy night, my chance came. I was waiting for them to come home, as usual, when it started to rain. Now, cats know enough to get out of the rain. I could have taken **shelter** in their woodshed. But I wanted to be right there on the doorstep when they came home.

Before long, the rain turned to snow. This was even better. I was sure that no one would turn a cat away on such a night. I heard their car pull into the **yard**. Then I watched them hurry toward the house. As soon as they saw me, I started to meow like a little lost kitten.

In no time, I was inside the house. Sandra dried me with a warm, fluffy towel. Ken kept saying, “Don’t feed him. Don’t feed him.” But I wasn’t looking for food just then. I was looking for a new home. At last, I thought I had found it. I was right. Before long, they were feeding me. Sandra talked to my old owners about me. They missed me, but they had two other cats. I didn’t feel bad.

Cats spend a lot of time sleeping, so Sandra made a soft **cushion** for me to use. To be honest, I prefer their bed. They also made a cat door for me with a little **flap**. I just push it open with my nose, and it closes behind me. Sandra likes to **groom** me. I think I do it better myself, but it gives her a lot of pleasure. I try not to sharpen my **claws** on their furniture. I think they are happy to have me around.

Answer each of the questions with a sentence.

-
- ① How did Bailey know there were **zero** cats at Sugar Wood Farm?

- ② How do you know that Ken didn’t want to **share** his home with Bailey?

- ③ Why do you think Bailey rubbed against Sandra’s **calf** and not Ken’s?

- ④ Why didn’t Bailey look for **shelter** when it started to rain and then snow?

	calf
	claw
	couple
	cushion
	flap
	groom
	share
	shelter
	yard
	zero

5 What happened to Bailey a **couple** of days after he was let into the house?

6 How do you know that Bailey can come in and go out to the **yard** easily?

7 Why didn't Bailey need to have Sandra **groom** him?

8 How often do you think Bailey sleeps on the **cushion** Sandra made for him? Explain your answer.

9 Do you think Bailey likes having the cat door with the **flap**? Explain your answer.

10 What are some ways Bailey might use his **claws**?

Fun FACT

-
- The plural of **calf** is not **calfs**, as you might expect. The plural of **calf** is **calves**.

1

Vocabulary Extension

share

verb To use or enjoy with others.

noun A part that each person gets of a whole.

Academic Context

In school, **sharing** is telling others something. You can **share** stories or ideas or read something aloud that you wrote.

Discussion & Writing Prompt

Tell about a time you or someone else **shared** a story in class.

2 min.

1. Turn and talk to your partner or group.

Use this space to take notes or draw your ideas.

3 min.

2. Write 1–3 sentences.

Be ready to share what you have written.

Review

Hidden Message Write the word that is missing from each sentence in the boxes next to it. The number after each sentence is the lesson the word is from. The shaded boxes will answer this riddle:

Joanne bet Joe that her dog could jump higher than a house. How did she win the bet?

1. The cloth was one _____ wide. (1)

1				
---	--	--	--	--

2. Sue forgot her lunch, so I offered to _____ mine with her. (1)

3. _____ is the opposite of bad.

4. Ramon needs a _____ of stamps for his letter. (1)

5. Ellen put the _____ back on the sofa, after it fell. (1)

6. Three, two, one, _____ (1)

2				
3				
4				
5				
6				

7. The kitten scratched my arm with its _____. (1)

8. The baby _____ followed its mother to the barn. (1)

9. The children ran for _____ as soon as the rain started. (1)

7			
8			
N'			
9			

10. The opposite of in is _____.

11. The _____ leads the horse to the stable. (1)

12. Large birds must _____ their wings to get into the air. (1)

J		
10		
11		
12		

Study the words. Then do the exercises that follow.

astronomy

n. The study of planets, stars, and space.

Many people who take up **astronomy** first became interested when they were children.

astronomer *n.* A person who studies astronomy.

An **astronomer** uses a telescope to study space.



.....

Discuss with your partner what you could learn using astronomy.

besides

prep. In addition to or also.

Besides being on the soccer team, Sean loves playing basketball.

crater

n. A hole in the shape of a bowl found in the ground or at the mouth of a volcano.

The hikers walked to the top of the volcano to look down into the large **crater**.

degree

n. 1. A unit for measuring how warm something is.

Cindy heated the oven to 350 **degrees** before she put the bread in to bake.

2. A stage or step in a series.

By **degrees**, Malcolm slowly got better at doing his math problems.



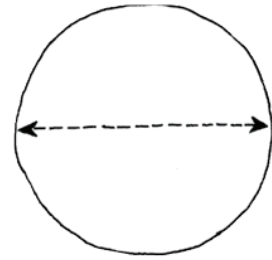
.....

Move toward your partner by small degrees.

diameter

n. The distance from side to side and through the center of a circle or a round object.

The **diameter** of the trunk of our old oak tree was at least thirty inches.



.....
Draw a circle on a piece of scrap paper and then show your partner where the diameter is.

gaze

v. To look steadily at something for a long time.

Sam and Julie **gazed** at the polar bears swimming in a large pool at the zoo.

gravity

n. 1. The force that pulls things toward the center of Earth.

Gravity causes an apple to fall to the ground.

2. The condition of being serious.

Celia understood later the **gravity** of what she had done by playing too close to the large waves.



.....
Show your partner how your face looks when you think about something of gravity.

reflect

v. 1. To turn or throw back, such as light or sound.

The mirror **reflected** Tyler's face when he looked into it.

2. To think carefully about something.

Paul **reflected** on the next chess piece he would move.



.....
Tell your partner what you might reflect on when you write a poem.

telescope

n. An object that makes distant things seem closer and larger. It does this by using mirrors and lenses.

On a cool October night, Dad and Molly set up the **telescope** in the backyard to view the stars.



universe

n. All of space and all the objects in space.

The Milky Way is just one of many large groups of stars in our **universe**.

10A

Completing Sentences

Circle each answer choice that correctly completes the sentence. Each question has three correct answers.

1 There was no one in the room **besides**

- (a) the Fourth of July.
 - (b) the teacher.
 - (c) Darryl and his silly cat.
 - (d) my grandfather, who was asleep.
-

2 Craters

- (a) are formed when large objects from space hit Earth.
 - (b) on the surface of Mars can be seen with a telescope.
 - (c) are Milo's favorite food, and he says they are healthy.
 - (d) soon fill with water if they are not filled in with dirt.
-

3 The universe

- (a) is full of millions of stars.
 - (b) is so big, I don't know where it might end.
 - (c) is all around our planet.
 - (d) is the smallest animal in the world.
-

4 Degrees measure

- (a) how warm something is.
 - (b) the temperature of the oven.
 - (c) the diameter of an apple.
 - (d) the different steps in a series.
-

5 Astronomers teach us that

- (a) none of the planets are real.
 - (b) our sun is just another star.
 - (c) Jupiter is the largest planet in our solar system.
 - (d) the Milky Way contains billions of stars.
-

	astronomy
	besides
	crater
	degree
	diameter
	gaze
	gravity
	reflect
	telescope
	universe

10B

Making Connections

Circle the letter next to the correct answer.

- 1 Which word goes with *stars*?
(a) machine (b) telescope (c) antenna (d) crater
.....
- 2 Which word goes with *circle*?
(a) dozen (b) reflect (c) gravity (d) diameter
.....
- 3 Which word goes with *serious*?
(a) gravity (b) invent (c) degree (d) girder
.....
- 4 Which word goes with *stare*?
(a) invent (b) design (c) gaze (d) reflect
.....
- 5 Which word goes with *think*?
(a) gaze (b) rotate (c) imitate (d) reflect
.....

10C

Using Context Clues

Circle the letter next to the word that correctly completes the sentence.

- 1 The water _____ the full moon.
(a) absorbed (b) reversed (c) reflected (d) flapped
.....
- 2 Kendall's interest in _____ led her to become an astronaut.
(a) astronomy (b) degrees (c) lizards (d) factories
.....
- 3 _____ French, Carlos is also studying Spanish.
(a) Reflecting (b) Besides (c) Imitating (d) Inventing
.....

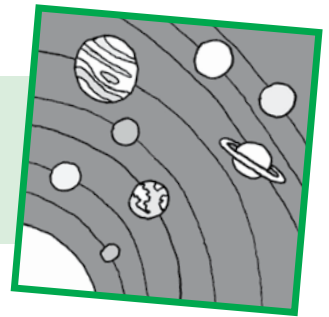
- 4 Marco could see the moon's craters clearly through the _____.
(a) universe (b) cavern (c) scoop (d) telescope

- 5 The temperature fell to zero _____.
(a) strands (b) degrees (c) diameters (d) centers

10D

Vocabulary in Context

Read the passage.



Twinkle, Twinkle, Little Star

How far up does the sky go? It seems to go on forever. No one knows where space ends. No one even knows if it has an end. So let us explore a small piece of it, our system of planets.

.....

People have always **gazed** at the night sky. Long ago, they saw the moon and the stars just as we do today. But some people noticed something more. They saw that some stars moved slowly across the night sky. Now we know that the moving objects are not stars at all. They are planets circling the sun.

About five billion years ago, the sun and planets were formed. They were made from clouds of gas and dust. **Gravity** pulled the chunks and pieces together to make lumps of matter. More and more dust was added to them. This made the lumps get bigger. The largest lump became the sun. It is a giant star. It shines brightly because it is an enormous ball of fire. Eight smaller lumps circle the sun. These are the planets. They **reflect** light from the sun.

The four planets farthest from the sun are Neptune, Uranus, Saturn, and Jupiter. No astronaut will ever land on any of these four. That is because they are made of gas. Each of these planets has rings around it. Each planet also has several moons. Jupiter is the largest planet. Its **diameter** is eleven times that of the Earth.

astronomy

besides

crater

degree

diameter

gaze

gravity

reflect

telescope

universe

Four smaller planets are closer to the sun. They are Mars, Earth, Venus, and Mercury. All of them are made of solid rock. Mercury is the closest to the sun. It is very hot. The temperature there can rise to 840 **degrees**. That's almost twice as high as the top setting on an oven!

About four hundred years ago, the **telescope** was invented. People were able to look closely at the planets for the first time. The early **astronomers** were surprised. Saturn's rings were beautiful. Mars had huge **craters**. Jupiter had several moons. One of the moons was even bigger than Mercury.

Our planet Earth travels around the sun. It is on a path between those of Mars and Venus. We think that Earth is one of the few planets in the **universe** that has liquid water. Our distance from the sun gives us just the right amount of heat. If we were much closer, the oceans would boil away. If we were much farther away, the oceans would turn to ice. But the temperature is just right. So life in all of its forms is possible on Earth.

Scientists now know that there are other suns **besides** our own. These suns also have planets circling them. They are very, very far away. Is there life on any of them? We do not know. They might have creatures that are smarter than we can imagine. Or Earth may be the only planet anywhere that has life. As more of space is explored, we may someday find out.

Answer each of the questions with a sentence.

-
- ① According to the passage, which planet **besides** Earth has living creatures on it?

- ② What did some of the very first **astronomers** see in the night sky?

3 What would you see if you were **gazing** at Saturn?

4 What did **gravity** pull together to make the sun and planets?

5 Why will we probably not find any **craters** on the four giant planets?

6 Do you think there might be other life in the **universe**? Explain your answer.

7 Which details in the passage tell you that the planets formed by **degrees**?

8 How does the **diameter** of Jupiter compare with that of Earth?

9 Why is it incorrect to say that the sun **reflects** light?

10 How did the invention of the **telescope** help science?

	astronomy
	besides
	crater
	degree
	diameter
	gaze
	gravity
	reflect
	telescope
	universe

Fun FACT

- **Besides** and **beside** look almost the same but have very different meanings. As you just learned, **besides** means “in addition to, or also.” **Beside** means “next to.” Be careful to use these words correctly, or you may say something you do not mean. For example:
*Melanie ate two scoops of ice cream **beside** the table.*
*Melanie ate two scoops of ice cream **besides** the table.*
(She must have had a bad stomachache after that meal!)

**reflect**

verb To think carefully about something.

verb To turn or throw back, such as light or sound.

Academic Context

When you **reflect** on something you have learned, you think carefully about it.

Word Family

reflection (noun)

reflecting (adjective)

reflector (noun)

Discussion & Writing Prompt

Reflect on one thing you learned today and tell about it.

2 min.

1. Turn and talk to your partner or group.

Use this space to take notes or draw your ideas.

3 min.

2. Write 1–3 sentences.

Be ready to share what you have written.

Lesson 10

Review

Hidden Message Write the word that is missing from each sentence in the boxes next to it. All the words are from Lesson 10. The shaded boxes will answer this riddle:

**Darryl has two coins that equal thirty cents.
One of them is not a nickel. How can that be?**

1. That photo clearly shows a _____
on the moon.

1						
---	--	--	--	--	--	--

2. A circle is divided into two equal
parts by its _____.

2							
---	--	--	--	--	--	--	--

3. The _____ discovered
a new star.

3									
---	--	--	--	--	--	--	--	--	--

4. People on a spaceship do
not feel any _____.

4					
---	--	--	--	--	--

5. The water will _____ the
sunlight into your eyes.

5						
---	--	--	--	--	--	--

6. The temperature dropped to
thirty _____ last night.

6						
---	--	--	--	--	--	--

7. Earth is only a very tiny part of the _____.

7							
---	--	--	--	--	--	--	--

8. We wanted to _____ at the stars
all night.

8			
---	--	--	--

9. _____ Jill, I have two other sisters.

9						
---	--	--	--	--	--	--

10. Through the _____, we could
see Venus.

10							
----	--	--	--	--	--	--	--