

# Unit 01 There's a Pig in the House!

#### **Key Words** (p. 07)

- A. 1. pet
  - 2. treat
  - 3. trick
  - 4. tear up
  - 5. rodents
  - 6. cage
- B. 1. cage
  - 2. pets
  - 3. tricks
  - 4. Tear up
  - 5. treat
  - 6. Rodents

#### While you read (p. 09)

They need exercise, so their cage should be big.

#### Comprehension (pp. 10-11)

A. (a)

B. 1. T 2. T 3. F

C. 1. © 2. a, b 3. b

D. safe, big, full, treat, pet, tricks

#### Link to Write (p. 11)

How to Care for My Pet

I want to have an **iguana**. It's important to take care of it properly.

First, it is happy when it is alone.

Next, it needs a big cage and fine sand.

Finally, it likes to eat fruit and vegetables.

### Unit 02 Can You Guess My Name?

#### Key Words (p. 13)

- A. 1. peek
  - 2. guess
  - 3. criminal
  - 4. backwards
  - 5. pipe
  - 6. cartoon
- B. 1. backwards
  - 2. pipe
  - 3. cartoon
  - 4. criminal
  - 5. auess
  - 6. peek

#### Think about it (p. 14)

He might be a detective, policeman, or professor.

\* Answers may vary.

#### Comprehension (pp. 16-17)

A. clues, mysteries

B. 1. F 2. F 3. T

C. 1. b 2. a, b 3. c

D. guess, English, criminals, hat, Sherlock

#### Link to Write (p. 17)

#### Guess Who?

- Rules: Try to guess who this person is.
   Don't search the Internet to find the answer.
- Clues: 1. He is not a real person.
  - 2. He saves many people from danger.
  - 3. He uses supernatural power.
  - 4. He wears blue pants and a red cape.
- Answer: **Superman**

<sup>\*</sup> Answers may vary.

<sup>\*</sup> Answers may vary.



### Unit 03 Let's Eat Local!

#### Key Words (p. 19)

- A. 1. temperature
  - 2. transport
  - 3. distance
  - 4. atmosphere
  - 5. fuel
  - 6. ocean
- B. 1. distance
  - 2. ocean
  - 3. fuels
  - 4. temperature
  - 5. atmosphere
  - 6. transport

#### While you read (p. 21)

Imported food uses the most fuel.

#### Comprehension (pp. 22-23)

**A.** (c)

B. 1. T 2. F 3. T

C. 1. (b) 2. (c) 3. (a), (b)

D. distance, fuels, heat, warming

#### Link to Write (p. 23)

What Food Used the Most Fuel?

What foods do you usually eat, and where do they come from? Look in your refrigerator. Then fill in the chart below.

pork	oranges (the US)
apples	mushrooms (China)
milk	butter (Australia)
Local Foods	Imported Foods (Country)

Among those foods, **oranges** used the most fuel because it travels a long distance from **the US**.

# Unit 04 How Many out of a Hundred?

#### **Key Words** (p. 25)

- A. 1. count
  - 2. pie chart
  - 3. formula
  - 4. survey
  - 5. graph
  - 6. school lunch
- B. 1. graph
  - 2. survey
  - 3. school lunches
  - 4. count
  - 5. formula
  - 6. pie chart

#### Think about it (p. 26)

Yes, I like it very much because it has various delicious food.

#### Comprehension (pp. 28-29)

A. school lunches, like

B. 1. T 2. F 3. T

C. 1. © 2. @ 3. @

D. survey, lunch, results, percentages

#### Link to Write (p. 29)

#### How Is **Your School Uniform**?

I want to know your opinion. Please check below.

1. I like its design.

©/⊕/⊗

2. I like its color.

⊕/⊕/⊗

3. Its price is good.

©/@/8

<sup>\*</sup> Answers may vary.

<sup>\*</sup> Answers may vary.

<sup>-</sup> Thanks for your participation. -

<sup>\*</sup> Answers may vary.



## Unit 05 I'm out of Control!

#### Key Words (p. 33)

- A. 1. concentrate
  - 2. reward
  - 3. timer
  - 4. self-control
  - 5. stay up
  - 6. delete
- B. 1. timer
  - 2. self-control
  - 3. stayed up
  - 4. delete
  - 5. reward
  - 6. concentrate

#### Think about it (p. 34)

I would tell him that he should delete the game from his computer and phone right away.

#### Comprehension (pp. 36-77)

A. stop, fix

B. 1. F 2. F 3. T

C. 1. a 2. c 3. b

D. concentrate, completely, 10(ten), reward, start

#### Link to Write (p. 37)

Dear Agatha,

I'm having a problem with self-control. I can't stop eating sweets after meals. Should I completely stop eating them at once?

Help me,

Sweets' Lover

## Unit 06 Round or Flat?

#### Key Words (p. 39)

- A. 1. half
  - 2. stretch
  - 3. sphere
  - 4. map
  - 5. globe
  - 6. shrink
- B. 1. shrink
  - 2. sphere
  - 3. stretch
  - 4. half
  - 5. globe
  - 6. map

#### While you read (p. 40)

We cut globes into two equal halves, and the shortest distance is on the line the cut makes.

#### Comprehension (pp. 42-43)

A. 1. (c)

B. 1. T 2. T 3. F

C. 1. (b), (c) 2. (b) 3. (a)

D. Globes: melon, circle, halves, real Maps: shortest, stretch

#### Link to Write (p. 43)

Globes or Maps?

In my opinion, maps have more advantages than globes. For example, they are easy to carry with. They also have some disadvantages like they do not show the exact locations. However, I think they are still better than globes.

<sup>\*</sup> Answers may vary.

<sup>\*</sup> Answers may vary.

<sup>\*</sup> Answers may vary.



# Unit 07 Athens: Birthplace of Democracy

#### **Key Words** (p. 45)

- A. 1. law
  - 2. population
  - 3. dispute
  - 4. vote
  - 5. property
  - 6. equal
- B. 1. Property
  - 2. population
  - 3. vote
  - 4. laws
  - 5. equal
  - 6. dispute

#### While you read (p. 46)

A direct democracy is the government in which each citizen voted on the laws.

#### Comprehension (pp. 48-49)

A. democracy, different

B. 1. T 2. F 3. T

C. 1. (a) 2. (b) 3. (b)

D. laws, land, foreigners, power

#### Link to Write (p. 49)

Government System in My Country

The government system of my country is different from ancient Athens'. First, we have a direct democracy in which the citizens have equal votes.

Citizens are equal in terms of gender, property, and religion.

They vote for choosing law makers or the president.

### Unit 08 The Great Train Adventure

#### Key Words (p. 51)

- A. 1.view
  - 2. backpacking
  - 3. luxurious
  - 4. dining
  - 5. landscape
  - 6. railway
- B. 1. view
  - 2. railway
  - 3. luxurious
  - 4. dinina
  - 5. landscapes
  - 6. backpacking

#### Think about it (p. 52)

The train has luxurious rooms and dining places, so it is just like staying in a hotel while you're traveling.

#### Comprehension (pp. 54-55)

A. 1. (c)

B. 1. F 2. T 3. T

C. 1. b 2. a, b 3. c

D. historic, country, magical, end, planes

#### Link to Write (p. 55)

My Travel Plan

- Period: **7** days **8** nights
- Transportation: Train & Bus
- Route: from Beijing to Shanghai
- Routes or attractions:
- 1. The Forbidden City
- 2. Summer Palace
- 3. the Great Wall of China

<sup>\*</sup> Answers may vary.

<sup>\*</sup> Answers may vary.

<sup>\*</sup> Answers may vary.



### Unit 09 As the World Turns

#### **Key Words** (p. 59)

- A. 1. top
  - 2. space
  - 3. spin
  - 4. rise
  - 5. set
  - 6. flashlight
- B. 1. rises
  - 2. top
  - 3. flashlight
  - 4. set
  - 5. space
  - 6. spins

#### While you read (p. 60)

It takes 24 hours.

#### Comprehension (pp. 62-63)

A. night, spins

B. 1. F 2. T 3. F

C. 1. (a), (b) 2. (b) 3. (c)

D. 24, light, shadow, night

#### Link to Write (p. 63)

Day and Night Date: **2016** / **09** / **20** 

The sun rises at **6:30 am** today. It becomes bright, and I get up at **7:00 am**. Daytime starts. It will last 12 hours.

At night, the sun **sets at 7:20 pm today**. It becomes dark, and I **go to bed at 10:00 pm**. Night starts. It will last another 12 hours.

# **Unit 10 Keep Your Enemies Closer**

#### **Key Words** (p. 65)

- A. 1. skin
  - 2. peck
  - 3. cut
  - 4. swallow
  - 5. itch
  - 6. worm
- B. 1. peck
  - 2. Worms
  - 3. skin
  - 4. itches
  - 5. swallow
  - 6. cut

#### Think about it (p. 67)

I think Crocodile benefits more because he ate the plover whole.

#### Comprehension (pp. 68-69)

**A.** (b)

B. 1. F 2. T 3. T

C. 1. © 2. b 3. a

D. Hippo and the oxpeckers: worms, cuts, oxpeckers

Crocodile and a plover: teeth, shut

#### Link to Write (p. 69)

They Help Each Other

Some animals help each other to live together. They benefit equally. It is called "symbiosis."

**Ants** and **aphids** are a good example.

In their relationship, ants protect aphids from predators, and aphids provide ants with food.

<sup>\*</sup> Answers may vary.

<sup>\*</sup> Answers may vary.

<sup>\*</sup> Answers may vary.



# Unit 11 CO<sub>2</sub>: The One-Way Gas

#### Key Words (p. 71)

- A. 1. stick
  - 2. ultraviolet light
  - 3. atom
  - 4. molecule
  - 5. gas
  - 6. greenhouse
- B. 1. gas
  - 2. greenhouse
  - 3. stick
  - 4. ultraviolet light
  - 5. molecule
  - 6. atom

#### While you read (p. 72)

Infrared rays have the longest.

#### Comprehension (pp. 74-75)

- A. (c)
- B. 1. F 2. F 3. T
- C. 1. a 2. c 3. b
- D. light, UV(Ultraviolet), infrared, inside

#### Link to Write (p. 75)

How to Reduce CO<sub>2</sub>

The greenhouse effect causes many problems in our environment. So we have to reduce  $\text{CO}_2$ . To do so, ...

- 1. We can plant many trees in mountains.
- 2. We can mainly eat local food.
- 3. We can use public transit.

### Unit 12 Now I See the Stars!

#### Key Words (p. 77)

- A. 1. doorknob
  - 2. germs
  - 3. telescope
  - 4. scattered
  - 5. lens
  - 6. microscope
- B. 1. doorknob
  - 2. telescope
  - 3. microscope
  - 4. lens
  - 5. Germs
  - 6. scattered

#### Think about it (p. 79)

I would like to see Mars and Venus with a telescope.

#### Comprehension (pp. 80-81)

- A. telescope, lenses
- B. 1. T 2. F 3. F
- C. 1. (a), (b) 2. (b) 3. (c)
- D. Telescopes: bigger, far away, moon(stars)
  Microscopes: tiny, germs

#### Link to Write (p. 81)

Lenses Are around Us!

There are many tools that have lenses. We use them for different purposes.

- Magnifying glass: We use it to see small things.
- Camera: We use it **to take pictures**.
- Sunglasses: We use them to avoid sunlight.
- Binoculars: We use them to see things that are a long distance away.

<sup>\*</sup> Answers may vary.

<sup>\*</sup> Answers may vary.

<sup>\*</sup> Answers may vary.



# Unit 13 Uncovering and Saving the Past

#### Key Words (p. 85)

- A. 1. remove
  - 2. artworks
  - 3. varnish
  - 4. repair
  - 5. art restorer
  - 6. fade
- B. 1. faded
  - 2. repairs
  - 3. Varnish
  - 4. remove
  - 5. artworks
  - 6. art restorer

#### While you read (p. 86)

They clean, repair, and protect old artworks.

#### Comprehension (pp. 88-89)

**A**. (a)

B. 1. T 2. F 3. F

C. 1. b 2. c 3. a, c

D. time, badly, old, damage, change, generations

#### Link to Write (p. 89)

Art Jobs

There are many different jobs related to art. Among them, I'd like to introduce you to the curators. This person's main jobs are to collect artworks for a gallery and provide the audience with good explanations about them. These jobs are important because many people do not know about art.

# Unit 14 The Painted Village

#### Key Words (p. 91)

- A. 1. shine
  - 2. dome
  - 3. village
  - 4. earthquake
  - 5. cliff
  - 6. reflect
- B. 1. shines
  - 2. reflect
  - 3. earthquake
  - 4. village
  - 5. cliff
  - 6. dome

#### Think about it (p. 93)

Narrow alleys between houses and stone steps are also pretty. And the sunset makes the village the most beautiful place in the world.

#### Comprehension (pp. 94-95)

A. white, island

B. 1. T 2. F 3. F

C. 1. (a), (b) 2. (c) 3. (a)

D. light, walls, heat, Short

#### Link to Write (p. 95)

The Most Beautiful Building

The most beautiful building I know is the **Taj Mahal**. It is located in **Agra, India**. It is beautiful because **its walls and poles are decorated with elaborate designs and jewels**.

<sup>\*</sup> Answers may vary.

<sup>\*</sup> Answers may vary.

<sup>\*</sup> Answers may vary.



# Unit 15 William Tell, the Opera

#### **Key Words** (p. 97)

- A. 1. storm
  - 2. thunder
  - 3. march
  - 4. dawn
  - 5. hero
  - 6. orchestra
- B. 1. Thunder
  - 2. Storms
  - 3. heroes
  - 4. Dawn
  - 5. orchestra
  - 6. march

#### While you read (p. 98)

It is the musical introduction of an opera.

#### Comprehension (pp. 100-101)

A. ©

B. 1. T 2. F 3. F

C. 1. b 2. a 3. c

D. cello, rages, over, flute, calm, trumpets, win

#### Link to Write (p. 101)

Title: Moonlight

I like to listen to **Moonlight**. It was written by **Ludwig van Beethoven**. It is played by a piano. I like this music because **the beautiful melody makes me calm and pleasant**.

### Unit 16 Coastal Safety

#### **Key Words** (p. 103)

- A. 1. hurricane
  - 2. flooding
  - 3. pantry
  - 4. beams
  - 5. generator
  - 6. firefighter
- B. 1. beams
  - 2. flooding
  - 3. Firefighters
  - 4. generator
  - 5. hurricane
  - 6. pantry

#### Think about it (p. 105)

I need some batteries and a flashlight. Or candles might be useful in case the power goes out.

\* Answers may vary.

#### Comprehension (pp. 106-107)

**A. b** 

B. 1. F 2. T 3. F

C. 1. a 2. b 3. b, c

D. Outside: flooding, shutters, winds Inside: generator, pantry

#### Link to Write (p. 107)

#### How to Prepare for an **Earthquake**

An **earthquake** occurs every year in this area. I have some tips to prepare for it.

- 1. Go under desk or table when you're inside.
- 2. Quickly run to an open place when you're outside.
- 3. Don't use elevators.

If you're prepared, you can reduce the damage.

<sup>\*</sup> Answers may vary.

<sup>\*</sup> Answers may vary.



# Unit 01 There's a Pig in the House!

#### Word Practice (p. 04)

- A. 1. trick 2. treat 3. tear up 4. cage 5. rodents 6. pet
- B. 1. (b) 2. (a) 3. (b) 4. (a)

#### Sentence Practice (p. 05)

- 1. You have to take care of a pet guinea pig properly.
- 2. They need that to feel safe.
- 3. Give them a treat each time.
- 4. You can even teach them tricks!

#### **Summary** (p. 05)

- 1) rodents 2) properly 3) cage
- 4 treat 5 tricks

### Unit 02 Can You Guess My Name?

#### Word Practice (p. 06)

- A. 1. peek 2. guess 3. pipe 4. cartoon 5. backwards 6. criminal
- B. 1. (a) 2. (b) 3. (a) 4. (b)

### Sentence Practice (p. 07)

- 1. You try to guess who I am.
- 2. I have appeared in lots of cartoons.
- 3. I have a very good memory.
- 4. I find clues and solve mysteries.

#### **Summary** (p. 07)

- 1 guess 2 cartoons 3 memory
- 4 criminals 5 pipe

### Unit 03 Let's Eat Local!

#### Word Practice (p. 08)

- A. 1. atmosphere 2. temperature 3. ocean 4. distance 5. transport 6. fuel
- B. 1. (b) 2. (b) 3. (a) 4. (a)

#### Sentence Practice (p. 09)

- 1. It came from a farm or the ocean.
- 2. It's all about the distance your food travels.
- 3. Transporting food burns fuel.
- 4. Burning fuel adds CO<sub>2</sub> to the atmosphere.

#### **Summary** (p. 09)

- 1) distance 2) fuel 3) atmosphere
- 4 temperature 5 local

### Unit 04 How Many out of a Hundred?

#### **Word Practice** (p. 10)

- A. 1. pie chart 2. school lunch 3. formula 4. count 5. graph 6. survey
- B. 1. b 2. a 3. b 4. a

#### Sentence Practice (p. 11)

- 1. Make a percentage graph with the results.
- 2. They passed out survey sheets in the lunch line
- 3. In math class, they counted the results.
- 4. By percentage, most kids like them.

#### Summary (p. 11)

- 1 assignment 2 passed 3 collected
- 4 counted 5 pie



## Unit 05 I'm out of Control!

#### Word Practice (p. 12)

- A. 1. timer 2. delete 3. self-control 4. stay up 5. concentrate 6. reward
- B. 1. (a) 2. (b) 3. (a) 4. (b)

#### Sentence Practice (p. 13)

- 1. Should I delete it from my computer?
- 2. You're having a problem with self-control.
- 3. It's like cheese and crackers.
- 4. Play for ten minutes as a reward.

#### **Summary** (p. 13)

- ① concentrate ② self-control ③ fix
- (4) reward (5) timer

## Unit 06 Round or Flat?

#### Word Practice (p. 14)

- A. 1. sphere 2. half 3. stretch 4. globe 5. shrink 6. map
- B. 1. b 2. a 3. b 4. a

#### Sentence Practice (p. 15)

- 1. You know the Earth is a sphere.
- 2. That's why we have globes.
- 3. Imagine you cut globes into two equal halves.
- 4. Some things stretch, and others shrink.

#### **Summary** (p. 15)

- 1) sphere 2 routes 3 Maps
- 4 rectangle 5 shrink

# Unit 07 Athens: Birthplace of Democracy

#### Word Practice (p. 16)

- A. 1. law 2. equal 3. property 4. vote 5. dispute 6. population
- B. 1. b 2. a 3. a 4. b

#### Sentence Practice (p. 17)

- 1. The citizens have equal votes.
- 2. Each citizen voted on the laws.
- 3. Men without property were left out.
- 4. The courts settled disputes.

#### Summary (p. 17)

- ① democracy ② citizen ③ laws
- 4 property 5 equal

# Unit 08 The Great Train Adventure

### Word Practice (p. 18)

- A. 1. dining 2. view 3. luxurious
  - 4. landscape 5. railway 6. backpacking
- B. 1. a 2. b 3. a 4. a

#### Sentence Practice (p. 19)

- 1. Enjoy world-class dining.
- 2. View beautiful landscapes unfolding every minute.
- 3. You'll be pleased by what unfolds outside your window.
- 4. We have tour options to meet your needs.

### **Summary** (p. 19)

- 1 railway 2 dining 3 landscapes
- 4 historic 5 pleased



# Unit 09 As the World Turns

#### Word Practice (p. 20)

- A. 1. rise 2. top 3. space 4. spin 5. set 6. flashlight
- B. 1. (b) 2. (a) 3. (a)

#### Sentence Practice (p. 21)

- 1. The sun rises in the east.
- 2. That's why we have day and night.
- 3. You may know the Earth spins like a top.
- 4. Imagine the sun as a flashlight.

#### **Summary** (p. 21)

top ② spin ③ light
 flashlight ⑤ night

# **Unit 10 Keep Your Enemies Closer**

#### Word Practice (p. 22)

- A. 1. worm 2. cut 3. swallow 4. peck 5. skin 6. itch
- B. 1. b 2. a 3. b 4. a

#### Sentence Practice (p. 23)

- 1. Oxpeckers were pecking into the skin.
- 2. I hate the worms inside my skin.
- 3. They peck the worms but leave cuts on me.
- 4. Crocodile swallowed the bird whole.

#### **Summary** (p. 23)

- 1) itch 2) peck 3) cuts
- 4 benefit 5 swallow

# Unit 11 CO<sub>2</sub>: The One -Way Gas

#### Word Practice (p. 24)

- A. 1. gas 2. molecule 3. stick 4. ultraviolet light 5. greenhouse
- B. 1. a 2. a 3. b 4. b

#### Sentence Practice (p. 25)

- 1. The Earth's air is made of many gases.
- 2. CO<sub>2</sub> is called a greenhouse gas.
- 3. Ultraviolet light has the shortest waves.
- 4. Molecules are atoms that are stuck together.

#### **Summary** (p. 25)

- 1 Ultraviolet 2 molecules 3 heats
- 4 infrared 5 greenhouse

### Unit 12 Now I See the Stars!

#### Word Practice (p. 26)

- A. 1. scattered 2. lens 3. microscope 4. doorknob 5. germs 6. telescope
- B. 1. a 2. b 3. b 4. a

### Sentence Practice (p. 27)

- 1. It has two kinds of lenses.
- 2. The big lens gathers scattered light.
- 3. Telescopes help us see big things that are far away.
- 4. You'll need a microscope for that.

### **Summary** (p. 27)

- ① lenses ② scattered ③ microscope
- 4 Telescopes 5 close



# Unit 13 Uncovering and Saving the Past

#### Word Practice (p. 28)

- A. 1. repair 2. fade 3. artworks 4. art restorer 5. varnish 6. remove
- B. 1. b 2. a 3. b 4. b

#### Sentence Practice (p. 29)

- 1. You don't think much about art restorers.
- 2. They repair and protect old artworks.
- 3. In classical painting, varnish is the last step.
- 4. It also keeps the colors from fading.

#### **Summary** (p. 29)

- 1) repair 2 restorers 3 varnish
- 4 remove 5 generations

# Unit 14 The Painted Village

### Word Practice (p. 30)

- A. 1. shine 2. village 3. reflect 4. dome 5. cliff 6. earthquake
- B. 1. a 2. b 3. a 4. a

### Sentence Practice (p. 31)

- 1. The older brother, Nick loves his village.
- 2. Nick looked down the cliffs toward the water.
- 3. The white buildings with blue domes shone in the sun.
- 4. Because we sometimes have earthquakes.

#### **Summary** (p. 31)

- 1) domes 2) climate 3) reflect
- 4 heat 5 earthquakes

# Unit 15 William Tell, the Opera

#### Word Practice (p. 32)

- A. 1. dawn 2. march 3. hero 4. storm 5. thunder 6. orchestra
- B. 1. b 2. a 3. b 4. a

#### Sentence Practice (p. 33)

- 1. This tells the story of a Swiss hero.
- 2. The first part is slow, peaceful cello music.
- 3. The full orchestra plays this part.
- 4. Swiss villagers enjoy the calm after the storm.

#### **Summary** (p. 33)

- 1) hero 2) Dawn 3) Storm
- 4 orchestra 5 March

### Unit 16 Coastal Safety

### Word Practice (p. 34)

- A. 1. pantry 2. beams 3. generator 4. firefighter 5. hurricane 6. flooding

#### Sentence Practice (p. 35)

B. 1. b 2. b 3. a 4. b

- 1. A firefighter in full gear came into the classroom.
- 2. The house was raised high on beams.
- 3. Hurricane sometimes causes flooding.
- 4. Ms. Morales turned on the generator.

#### **Summary** (p. 35)

- 1 beams 2 flooding 3 generator
- 4 pantry 5 emergency