

Unit 01 Don't Panic!

Key Words (p. 07)

- A. 1. announce
2. emergency
3. flight attendant
4. panic
5. land
6. take off
- B. 1. land
2. Flight attendants
3. panic
4. take off
5. announced
6. emergencies

Think about it (p. 09)

A fire can be caught in the air plane, or there should be a patient among passengers.

** Answers may vary.*

Comprehension (pp. 10-11)

- A. ③
- B. 1. F 2. T 3. F
- C. 1. ③ 2. ① 3. ③
- D. smoke, radio, manual, checklist, turn around, landed

Link to Write (p. 11)

I Had an Emergency!

I have experienced an emergency. It was **last month during flight**.

- What happened: **My brother suddenly felt sick and vomited.**
- What you did: **I asked the flight attendant for medicine.**
- The result: **He became a little better and was taken to the hospital after landing.**

The next time the same thing happens, I'll be more prepared for it!

** Answers may vary.*

Unit 02 How Many Englishes Are There?

Key Words (p. 13)

- A. 1. grammar
2. conversation
3. shorts
4. language
5. plural
6. vocabulary
- B. 1. conversation
2. languages
3. vocabulary
4. plural
5. shorts
6. Grammar

While you read (p. 14)

It is because usually the name of a language cannot be plural.

Comprehension (pp. 16-17)

- A. many, countries
- B. 1. T 2. T 3. F
- C. 1. ③ 2. ① 3. ③
- D. vocabulary, mixes, grammar, Eat, Englishes

Link to Write (p. 17)

Let's Learn **Chinese**!

I'm learning **Chinese**. It's very interesting.

First of all, **it has rhythmic sounds and accents**. Also, it **has a similar grammar system to English**.

It's not easy to learn this language, but why don't you try?

** Answers may vary.*

Unit 03 Meet a "Person of the Forest"

Key Words (p. 19)

- A. 1. palm tree
2. disappear
3. ape
4. rainforest
5. predator
6. human

- B. 1. Predators
2. apes
3. Humans
4. rainforest
5. palm trees
6. disappear

Think about it (p. 20)

Orangutans and humans are both great apes and stand with two legs.

** Answers may vary.*

Comprehension (pp. 22-23)

A. ⑥

B. 1. F 2. T 3. T

C. 1. ③ 2. ①, ③ 3. ⑥

D. Humans, forest, rainforest, disappearing, trees, eight(8), survival

Link to Write (p. 23)

Save Their Homes!

In the rainforest, many different animals are living. Among them, I'd like to introduce **gorillas**. They stay **in the forests of western Africa**. They get **food from the forests, manly tree leaves or small plants**.

But today, they are endangered because humans cut down lots of trees. We should stop cutting down trees to save their homes!

** Answers may vary.*

Unit 04 Too Many or Not Enough?

Key Words (p. 25)

- A. 1. prefer
2. divide
3. crowded
4. city
5. population
6. country

- B. 1. prefer
2. population
3. city
4. country
5. crowded
6. divide

While you read (p. 26)

By diving the total population by the area in square kilometers, I get the population density.

Comprehension (pp. 28-29)

A. density, crowded

B. 1. T 2. F 3. T

C. 1. ⑥, ③ 2. ① 3. ③

D. population, 17,261, crowded, open land

Link to Write (p. 29)

I Prefer **Cities!**

I would live in the **city** because it **has many convenient things**. Also, **there are many different people I can meet in the city**.

I know living in the **city** also has some disadvantages. For example, **the streets are full of garbage, and the air is bad**.

However, I still think living in the **city** would be better.

** Answers may vary.*

Unit 05 The Thief and the Bishop

Key Words (p. 33)

- A. 1. candlestick
2. steal
3. silver
4. hero
5. prison
6. forgive

- B. 1. hero
2. prison
3. forgive
4. stole
5. silver
6. Candlesticks

Think about it (p. 34)

He is kind and generous.

** Answers may vary.*

Comprehension (pp. 36-37)

A. ①

B. 1. T 2. T 3. F

C. 1. ①, ③ 2. ② 3. ①

D. silver, policeman, lie, candlesticks, forgives

Link to Write (p. 37)

The Thief and the Bishop Scene #2

- Characters: Jean Valjean (the hero), **Bishop Myriel, Fantine**
- Plot: After that, **Valjean starts a new life with a new name. He runs a factory in a small town. He meets a poor woman, Fantine and tries to help her. Then the police finds out that he was a criminal. Finally, Jean Valjean goes back to prison.**

** Answers may vary.*

Unit 06 Iceland Adventure

Key Words (p. 39)

- A. 1. coast
2. glacier
3. vacation
4. northern lights
5. volcano
6. capital

- B. 1. vacation
2. coast
3. capital
4. glaciers
5. Volcanoes
6. northern lights

Think about it (p. 41)

I want to see Geysir and the Gulfoss waterfalls in Iceland.

** Answers may vary.*

Comprehension (pp. 42-43)

A. 1. northern lights, vacation

B. 1. F 2. F 3. T

C. 1. ② 2. ① 3. ①

D. coast, volcano, black, hiking, lights

Link to Write (p. 43)

A Winter Adventure

I want to go to **Sapporo** during this winter vacation. It is located in **the north of Japan**, and the weather is **very cold and snowy in winter**. There are many things to enjoy. I will **go skiing and snowboarding**. I also want to **go to the snow festival**.

I'm looking forward to this winter vacation!

** Answers may vary.*

Unit 07 A Promise to Give

Key Words (p. 45)

- A. 1. wealth
2. charity
3. billionaire
4. give away
5. aristocrats
6. humanity

- B. 1. billionaire
2. Charities
3. wealth
4. humanity
5. giving away
6. Aristocrats

While you read (p. 46)

They inherited a lot of money and power.

Comprehension (pp. 48-49)

A. ①

B. 1. F 2. T 3. T

C. 1. ⑥ 2. ③ 3. ①, ⑥

D. 2010, give, billionaires, half, humanity, duty

Link to Write (p. 49)

My Giving Pledge

In **50** years from now, it'll be the right time to give away my money and property. I promise to give away **half** of my money and property for **poor children in Africa**. I've decided to do so because **it's my duty to help others**.

Signature: **Anna Gang**

** Answers may vary.*

Unit 08 Make Your Own Luck

Key Words (p. 51)

- A. 1. paw
2. ceramic
3. entrance
4. dreamcatcher
5. cricket
6. clover

- B. 1. paw
2. Crickets
3. dreamcatcher
4. clover
5. entrance
6. ceramic

While you read (p. 53)

It means "money cat" or "welcoming cat."

Comprehension (pp. 54-55)

A. charms, dreamcatchers

B. 1. F 2. T 3. F

C. 1. ① 2. ⑥, ③ 3. ③

D. Asia, clovers, string, good, ceramic, paws

Link to Write (p. 55)

A Lucky Charm: **Evil Eyes**

In **Turkey**, we have **evil eyes**. They are made of **colored glass**. People believe that they **block bad luck nine times out of ten**.



** Answers may vary.*

Unit 09

Thales Gets an Idea

Key Words (p. 59)

- A. 1. triangle
2. pace
3. sundials
4. length
5. angle
6. height
- B. 1. Height
2. sundial
3. angle
4. pace
5. Triangles
6. length

Think about it (p. 60)

It is famous for pyramids and mummies.

** Answers may vary.*

Comprehension (pp. 62-63)

- A. ©
- B. 1. T 2. F 3. T
- C. 1. ⑥ 2. ⑥, © 3. ①
- D. sundial, longer, heights, stick, shadow, height, ratio

Link to Write (p. 63)

My Shadow Changes

In the morning when I leave home, I measure my shadow. It is **75** cm. I'm **150** cm tall. My shadow is **shorter** than me then.

At noon, I measure my shadow again. It's **147** cm. It is **almost the same with** my height.

In the afternoon when I come back, I measure again. My shadow is **172** cm. It gets **longer**.

** Answers may vary.*

Unit 10

There's a Fungus in My Sandwich!

Key Words (p. 65)

- A. 1. bubble
2. wheat flour
3. fluffy
4. yeast
5. dough
6. fungus
- B. 1. fungus
2. dough
3. wheat flour
4. yeast
5. bubbles
6. fluffy

While you read (p. 66)

Tortilla is flat without yeast, while sandwich bread is fluffy with yeast.

Comprehension (pp. 68-69)

- A. Yeast, fluffy
- B. 1.T 2. F 3. F
- C. 1. ①, © 2. © 3. ⑥
- D. dough, rise, sugar, bigger, bake

Link to Write (p. 69)

I'll Bake **Peanut Butter Cookies!**

• Ingredients: wheat flour, **sugar, egg, peanut butter**

• How to Make It:

1. **Mix sugar, peanut butter, and egg.**
2. **Add wheat flour and shape cookies.**
3. **Bake them in the oven for 25 minutes.**



** Answers may vary.*

Unit 11 A Customer Complaint

Key Words (p. 71)

- A. 1. stale
2. complaint
3. crispy
4. transport
5. water vapor
6. seal

- B. 1. seal
2. crispy
3. stale
4. transport
5. water vapor
6. complaint

Think about it (p. 72)

He feels angry or mad.

** Answers may vary.*

Comprehension (pp. 74-75)

- A. ①
B. 1. T 2. F 3. F
C. 1. ② 2. ②, ③ 3. ①
D. Problems: air, stale, tightly
Solutions: nitrogen, crispy, empty

Link to Write (p. 75)

Different Gases

Gas (Symbol)	Characteristics
oxygen (O ₂)	a gas we need to live, no color, no smell
nitrogen (N)	the gas we fill the snack bag, no color, no smell
hydrogen (H₂)	the gas in water, no color, no smell

There are different gases around us. Oxygen (O₂) is a gas we need to live. It has no color and no smell.

Nitrogen (N) is another gas. It **is the gas we fill snack bags**. It **has no color and no smell**.

** Answers may vary.*

Unit 12 Catching Fire

Key Words (p. 77)

- A. 1. spark
2. scrape
3. tinder
4. flint
5. steel
6. matches

- B. 1. flint
2. tinder
3. steel
4. spark
5. matches
6. scrape

While you read (p. 78)

I can find them by rivers.

Comprehension (pp. 80-81)

- A. campers, fire
B. 1. F 2. F 3. T
C. 1. ② 2. ① 3. ①, ③
D. lighters, sharp, tinder, quickly, Sparks

Link to Write (p. 81)

Three Important Things for Camping

There are three things you should bring on any camping trip.

First of all, always bring a knife. It not only cuts the things, but it also helps you make fire. Secondly, you should bring **some ropes**. They **can fasten anything tightly and sometimes save your life**. Finally, don't forget **a lantern**. It **helps you see in the dark and keeps you safe**.

** Answers may vary.*

Unit 13 Living Pictures

Key Words (p. 85)

- A. 1. moving
2. separate
3. pose
4. flip
5. similar
6. animated movie

- B. 1. flip
2. similar
3. moving
4. animated movie
5. pose
6. separate

While you read (p. 87)

Computers help artists make more and better frames.

Comprehension (pp. 88-89)

A. ©

B. 1. T 2. T 3. F

C. 1. a 2. b 3. c

D. notebook, edge, different, completes, flip

Link to Write (p. 89)

Title: **Frozen**

I watched this movie **last year at home**. The characters are **Elsa, Anna, Olaf, etc.** Among them, I like **Anna** the most because **she is very kind and loves her sister**. In the movie, **Elsa, who is the princess, has power to freeze everything**. People are **afraid of her, but Anna helps her become a real queen**.

** Answers may vary.*

Unit 14 The Red Priest

Key Words (p. 91)

- A. 1. choir
2. priest
3. penniless
4. violinist
5. orphan
6. composer

- B. 1. penniless
2. composer
3. orphan
4. choir
5. violinist
6. Priests

While you read (p. 93)

He left the church soon due to poor health.

Comprehension (pp. 94-95)

A. composer, penniless

B. 1. F 2. T 3. F

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

D. music, priest, violin, operas, tastes

Link to Write (p. 95)

The Great Musician, **Chopin**

Born in **1810**, he studied **piano**. He became a **composer** in **1925**. He wrote famous works like **Impromptu**. People like his music because **his music style was very professional and sensitive**.

** Answers may vary.*

Unit 15 School for Samba

Key Words (p. 97)

- A. 1. parade
2. earbuds
3. dance club
4. meeting
5. headdress
6. festival
- B. 1. headdresses
2. dance club
3. parade
4. earbuds
5. meeting
6. festival

Think about it (p. 98)

Brazil is also famous for soccer and coffee.

** Answers may vary.*

Comprehension (pp. 100-101)

- A. ①
- B. 1. F 2. T 3. T
- C. 1. ③ 2. ②, ③ 3. ①
- D. yearly festival, parade, costume, headdress

Link to Write (p. 101)

English Newspaper Club

Our school club is for **making English newspapers**. We **collect information and write articles in English** together. We usually gather **on Wednesdays**. Our leader is **Tim Jackson**, and now we have **eight** members. Would you join our club?

** Answers may vary.*

Unit 16 Belt Test

Key Words (p. 103)

- A. 1. martial arts
2. kick
3. sparring
4. judge
5. spinning
6. stripe
- B. 1. Sparring
2. judge
3. spinning
4. martial arts
5. kick
6. stripes

Think about it (p. 105)

He might be very happy and proud of himself.

** Answers may vary.*

Comprehension (pp. 106-107)

- A. martial , belt
- B. 1. F 2. F 3. T
- C. 1. ①, ② 2. ② 3. ③
- D. judges, memorized, sparring, mistakes, spinning

Link to Write (p. 107)

Let's Learn Martial Arts!

I would like to learn **judo**. It comes from **Japan**, and many people do it now. It consists of **throwing, pinning, joint locking, and choking**. Among them, **throwing** looks the most impressive. Would you like to learn with me? Someday, we can try sparring with each other.

** Answers may vary.*

Unit 01

Don't Panic!

Word Practice (p. 04)

- A. 1. take off 2. emergency 3. announce
4. panic 5. land 6. flight attendant

- B. 1. ① 2. ② 3. ② 4. ①

Sentence Practice (p. 05)

1. They won't panic in a real emergency.
2. It's the same for the flight attendants.
3. Soon after we took off, there was smoke inside the plane.
4. They calmly announced we were landing.

Summary (p. 05)

- ① wrong ② emergency ③ manual
④ figure out ⑤ flight attendants

Unit 02

How Many Englishes Are There?

Word Practice (p. 06)

- A. 1. shorts 2. language 3. grammar
4. vocabulary 5. plural 6. conversation

- B. 1. ② 2. ② 3. ① 4. ①

Sentence Practice (p. 07)

1. The name of a language cannot be plural.
2. Englishes differ in accent, grammar, and vocabulary.
3. In other Englishes, it means "shorts."
4. In Singapore, people speak "Singlish" in everyday conversation.

Summary (p. 07)

- ① differently ② grammar ③ language
④ vocabulary ⑤ impossible

Unit 03

Meet a "Person of the Forest"

Word Practice (p. 08)

- A. 1. ape 2. human 3. disappear
4. predator 5. rainforest 6. palm tree

- B. 1. ① 2. ① 3. ② 4. ①

Sentence Practice (p. 09)

1. Let me tell you about myself.
2. I guess we're a lot like you.
3. My home is in the rainforest of Sumatra.
4. Besides predators, we have another problem.

Summary (p. 09)

- ① ape ② rainforest ③ predators
④ disappearing ⑤ cut down

Unit 04

Too Many or Not Enough?

Word Practice (p. 10)

- A. 1. crowded 2. city 3. population
4. prefer 5. country 6. divide

- B. 1. ② 2. ② 3. ② 4. ①

Sentence Practice (p. 11)

1. Which do you like better, the city or the country?
2. This means how crowded a place is.
3. Divide the total population by the area.
4. Many people seem to prefer more crowded places.

Summary (p. 11)

- ① density ② Divide ③ square
④ crowded ⑤ prefer

Unit 05

The Thief and the Bishop

Word Practice (p. 12)

- A. 1. silver 2. steal 3. forgive
4. hero 5. candlestick 6. prison
- B. 1. (a) 2. (a) 3. (b) 4. (b)

Sentence Practice (p. 13)

1. The hero spent years in prison for stealing.
2. Valjean steals some silver and runs away.
3. In fact, you forgot these candlesticks.
4. I don't understand why you did that.

Summary (p. 13)

- ① stealing ② silver ③ bishop
④ candlesticks ⑤ forgives

Unit 06

Iceland Adventure

Word Practice (p. 14)

- A. 1. vacation 2. northern lights 3. glacier
4. coast 5. volcano 6. capital
- B. 1. (a) 2. (b) 3. (a)

Sentence Practice (p. 15)

1. The drive along the southern coast lasted hours.
2. The sand is from a volcano, so it's black.
3. We went hiking on a glacier.
4. Iceland was an odd place to take a vacation.

Summary (p. 15)

- ① capital ② coast ③ volcano
④ glacier ⑤ northern lights

Unit 07

A Promise to Give

Word Practice (p. 16)

- A. 1. humanity 2. wealth 3. charity
4. billionaire 5. aristocrats 6. give away
- B. 1. (b) 2. (a) 3. (b) 4. (a)

Sentence Practice (p. 17)

1. In the past, most countries had aristocrats.
2. Both promised to give most of their money away.
3. They agree to give away more than half of their wealth.
4. They may give to any charity.

Summary (p. 17)

- ① duty ② Pledge ③ away
④ wealth ⑤ humanity

Unit 08

Make Your Own Luck

Word Practice (p. 18)

- A. 1. paw 2. cricket 3. dreamcatcher
4. ceramic 5. clover 6. entrance
- B. 1. (b) 2. (a) 3. (a) 4. (b)

Sentence Practice (p. 19)

1. Crickets are believed to be lucky in Asia.
2. Four-leaf clovers bring luck in Ireland.
3. The owner hangs the dreamcatcher over his or her bed.
4. People make these things to make life a little happier.

Summary (p. 19)

- ① charms ② Dreamcatchers ③ good
④ entrances ⑤ success

Unit 09 Thales Gets an Idea

Word Practice (p. 20)

- A. 1. pace 2. height 3. angle
4. sundial 5. length 6. triangle

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

Sentence Practice (p. 21)

1. One afternoon, Thales sat near a sundial.
2. The people's shadows were the same length as their heights!
3. Each shadow is one side of a right triangle.
4. Sunlight hits everything at the same angle.

Summary (p. 21)

- ① height ② triangle ③ shadow
④ base ⑤ height

Unit 10 There's a Fungus in My Sandwich!

Word Practice (p. 22)

- A. 1. bubble 2. fungus 3. fluffy
4. wheat flour 5. yeast 6. dough

- B. 1. b 2. a 3. b 4. b 5. b

Sentence Practice (p. 23)

1. Bakers make sandwich bread with yeast.
2. Yeast are living things in the fungus family.
3. Bread starts with wheat flour and dry yeast.
4. The gas forms little bubbles inside the dough.

Summary (p. 23)

- ① wheat ② yeast ③ breaks down
④ carbon dioxide ⑤ bubbles

Unit 11 A Customer Complaint

Word Practice (p. 24)

- A. 1. crispy 2. seal 3. stale
4. water vapor 5. transport 6. complaint

- B. 1. b 2. b 3. a 4. b 5. a

Sentence Practice (p. 25)

1. The bags are mostly empty!
2. These things make food stale.
3. We add nitrogen gas before sealing the bag.
4. The nitrogen makes empty space, like a cushion.

Summary (p. 25)

- ① complaint ② water vapor ③ stale
④ crispy ⑤ cushion

Unit 12 Catching Fire

Word Practice (p. 26)

- A. 1. scrape 2. tinder 3. steel
4. spark 5. matches 6. flint

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

Sentence Practice (p. 27)

1. Let's say you have a pile of dry tinder.
2. What if all your matches are wet?
3. A simple one is with steel and flint.
4. Scrape the flint edge quickly with your knife.

Summary (p. 27)

- ① make fire ② flint ③ tinder
④ Scrape ⑤ sparks

Unit 13

Living Pictures

Word Practice (p. 28)

- A. 1. similar 2. pose 3. separate
4. flip 5. animated movie 6. moving
- B. 1. ⑥ 2. ③ 3. ③ 4. ⑥

Sentence Practice (p. 29)

1. Draw him or her in a slightly different pose.
2. Flip quickly through the frames.
3. All animation works in a similar way.
4. That makes the animation look smoother.

Summary (p. 29)

- ① alive ② pose ③ moving
④ similar ⑤ separate

Unit 14

The Red Priest

Word Practice (p. 30)

- A. 1. penniless 2. violinist 3. orphan
4. choir 5. priest 6. composer
- B. 1. ⑥ 2. ⑥ 3. ③ 4. ③

Sentence Practice (p. 31)

1. Antonio Vivaldi was an Italian composer.
2. The cheerful "Spring" concerto is beloved by millions.
3. He became a priest in 1703.
4. Most people forgot Vivaldi for a long time.

Summary (p. 31)

- ① composer ② violinist ③ priest
④ hit ⑤ re-discovered

Unit 15

School for Samba

Word Practice (p. 32)

- A. 1. headdress 2. parade 3. earbuds
4. festival 5. meeting 6. dance club
- B. 1. ③ 2. ⑥ 3. ⑥ 4. ⑥ 5. ③

Sentence Practice (p. 33)

1. I started a dance club at school.
2. She was listening to music through earbuds.
3. Carnival was a six-day yearly festival in Brazil.
4. Isabela showed me photos on her phone.

Summary (p. 33)

- ① dance club ② earbuds ③ gracefully
④ traditional ⑤ headdress

Unit 16

Belt Test

Word Practice (p. 34)

- A. 1. kick 2. martial arts 3. sparring
4. stripe 5. spinning 6. judge
- B. 1. ③ 2. ⑥ 3. ⑥ 4. ③

Sentence Practice (p. 35)

1. The moves and philosophy are from ancient martial arts.
2. His favorite part is the kicks.
3. Nate felt nervous but confident too.
4. He broke the wood with a strong spinning kick.

Summary (p. 35)

- ① kicks ② confident ③ judge
④ sparring ⑤ spinning