

Unit 1 Mighty Travelers

(p. 6)

Q1 What is this?

A1 It is a dandelion seed.

Q2 What does it look like?

A2 It looks like a helicopter.

OR

It looks like a parachute.

(p. 7)

Q Why do you think these seeds have wings?

A (Answers may vary.) I think they have wings to travel long distances.

Key Words (pp. 6-7)

1. ⓑ

2. ⓐ

3. ⓐ

4. ⓑ

5. ⓐ

6. ⓐ

7. ⓐ

8. ⓑ

(p. 8)

Q What do plant and tree seeds do to survive?

A They travel far away.

Comprehension Check (p. 10)

1. ⓐ

2. ⓐ

3. True

4. False

5. spread

6. wind, animal

7. ⓑ

8. survive

Points to Remember (p. 11)

A.

By Wind: Wind, dandelion

By Water: float

By Animal: fruits, New Zealand

B.

grow, travel, water, carries, Coconut, droppings

Unit 2 Banks for Seeds

(p. 12)

Q This is a seed bank. Why do you think people need seed banks?

A (Answers may vary.) I think people need seed banks to keep seeds for a long time.

(p. 13)

Q Why do you think she is wearing winter clothes?

A (Answers may vary.) I think the temperature in the room is very low.

Key Words (pp. 12-13)

1. a
2. a
3. b
4. a
5. b
6. b
7. a
8. b

(p. 14)

Q Why are seeds having trouble growing?

A They are having trouble growing because of the higher temperatures.

Comprehension Check (p. 16)

1. b
2. c
3. True
4. True
5. destroy, crops
6. past, protect
7. c
8. collect

Points to Remember (p. 17)

A.

Protection: climate change, wildfires, typhoons

Storage: low

B.

safe, temperatures, extinction, valuable, natural, future

Making Connections (p. 18)

Unit 1: a-d-e

Unit 2: f-c-b

Unit 3 Helpful Clothes

(p. 20)

Q What types of clothes do people wear for sports?

A They wear light and comfortable clothes.

(p. 21)

Q This fabric is waterproof. What clothes can be made with this fabric?

A (Answers may vary.) Umbrellas or rain jackets can be made with this fabric.

Key Words (pp. 20-21)

1. a
2. a
3. b
4. b
5. a
6. b
7. a
8. b

(p. 22)

Q What fabric is often used to make athletic uniforms?

A Many athletic uniforms are made of polyester.

Comprehension Check (p. 24)

1. ©
2. @
3. True
4. False
5. lightweight, sweat
6. safe, comfortable
7. @
8. effective

Points to Remember (p. 25)

A.

Outside Layer: catch

Second Layer: chemicals, vapors

Third Layer: decreases, cool

B.

uniforms, protect, heavy, Athletes, lightweight, tear

Unit 4 Eco-Friendly Fashion Sense

(p. 26)

Q How often do you go shopping for new clothes?

A (Answers may vary.) I go shopping for new clothes once a month.

(p. 27)

Q What is this sweater made of?

A It is made of wool.

Key Words (pp. 26-27)

1. ©
2. ©
3. @
4. @
5. ©
6. ©
7. @
8. ©

(p. 28)

Q Why is wool eco-friendly?

A It is renewable because it can be obtained every year.

Comprehension Check (p. 30)

1. ©
2. @
3. False
4. True
5. processing, fiber
6. Bamboo, wool
7. ©
8. affect

Points to Remember (p. 31)

A.

Bamboo Fabric: breathable

Recycled Polyester: scraps, 75

Wool: sheep, renewable

Soy Silk: leftover, expensive

B.

environment, carbon emissions, water, eco-friendly, silk, longer

Making Connections (p. 32)

Unit 3: f-b-c

Unit 4: e-d-a

Unit 5 Special Effects Makeup Artists

(p. 34)

Q What is interesting about this actor?

A She is wearing special makeup.

(p. 35)

Q What are the jobs of these people?

A One person is a makeup artist. One person is an actor. And one person is a director.

Key Words (pp. 34-35)

1. Ⓐ

2. Ⓑ

3. Ⓐ

4. Ⓑ

5. Ⓐ

6. Ⓑ

7. Ⓑ

8. Ⓐ

(p. 36)

Q Who is Gamora? How does she look?

A Gamora is a space alien with green skin.

Comprehension Check (p. 38)

1. Ⓑ

2. Ⓒ

3. True

4. False

5. latex

6. realistic, viewers

7. Ⓒ

8. injuries

Points to Remember (p. 39)

A.

STEP 1: Apply, silicone

STEP 2: Cover, makeup

STEP 3: Add, eye shadow

B.

actors, wounds, create, turn, effects, realistic

Unit 6 Movie Sounds from a Kitchen

(p. 40)

Q1 What is happening in the movie?

A1 Someone is walking in a field of grass.

Q2 What sounds would the people hear?

A2 They would hear soft footsteps.

(p. 41)

Q What sound do you think the person is making?

A (Answers may vary.) I think the person is making the sound of a car driving on the Moon.

Key Words (pp. 40-41)

1. a

2. a

3. a

4. b

5. a

6. b

7. a

8. a

(p. 42)

Q What sound can you make when you bite into a juicy apple?

A It is the sound of a werewolf biting into its victim.

Comprehension Check (p. 44)

1. b

2. c

3. True

4. False

5. make, scary

6. foods, kitchen

7. c

8. common

Points to Remember (p. 45)

A.

Walking in a Forest: bowl, hands

Being Underwater: milk, bubbles

Walking in the Snow: bag, Step

B.

important, foods, breaking, footsteps, underwater, snow

Making Connections (p. 46)

Unit 5: b-f-d

Unit 6: e-c-a

Unit 7 Science behind a Slide

(p. 48)

Q What do you see on the playground?

A I see slides on the playground.

(p. 49)

Q What will happen to the boy at the top of the slide?

A He will slide down.

Key Words (pp. 48-49)

1. ⑥
2. ⑥
3. ①
4. ⑥
5. ①
6. ①
7. ①
8. ⑥

(p. 50)

Q What causes friction?

A When two things rub against each other, they cause friction.

Comprehension Check (p. 52)

1. ③
2. ①
3. True
4. True
5. invisible, down
6. forces
7. ⑥
8. full

Points to Remember (p. 53)

A.

Gravity: pulls, work

Friction: two, rub, slide

B.

science, law, gravity, friction, fast, safe

Unit 8 Engineering with Origami

(p. 54)

Q How is this person making paper cranes?

A The person is making paper cranes by folding paper.

(p. 55)

Q These are origami paper toys. What origami toys can you make?

A (Answers may vary.) I can make a frog, a ship, a plane, and a crane.

Key Words (pp. 54-55)

1. ①
2. ⑥
3. ①
4. ①
5. ⑥
6. ⑥
7. ①
8. ⑥

(p. 56)

Q Why is a Cardborigami shelter better than a tent?

A It is because the shelter's folding pattern makes it stronger than a tent.

Comprehension Check (p. 58)

1. ©
2. ⓑ
3. False
4. True
5. flexible
6. stronger
7. ⓑ
8. makes

Points to Remember (p. 59)

A.

Our Kayak: boat, suitcase, plastic

Cardborigami Shelter: shelter, hula hoop, cardboard

B.

art, origami, invented, homeless, adults, pattern

Making Connections (p. 60)

Unit 7: f-e-b

Unit 8: c-a-d

Unit 9 Underwater Hockey

(pp. 62-63)

Q1 What water activities are the people doing?

A1 They are surfing, kayaking, swimming, sailing, snorkeling, and jet-skiing.

Q2 Which activity do you want to try?

A2 (Answers may vary.) I want to try snorkeling.

Key Words (pp. 62-63)

1. ⓐ
2. ⓑ
3. ⓑ
4. ⓐ
5. ⓑ
6. ⓐ
7. ⓐ
8. ⓑ

(p. 64)

Q How long is an underwater hockey game?

A An underwater hockey game has two fifteen-minute halves.

Comprehension Check (p. 66)

1. ⓐ
2. ©
3. True
4. False
5. stick, puck
6. safe, play
7. ©
8. underwater

Points to Remember (p. 67)

A.

goals, goal tray, six, snorkel, guards, halves

B.

invented, training, requires, equipment,
intensive, countries

Unit 10 Aquatic Therapy

(p. 68)

Q The woman is getting physical therapy. Who do you think needs physical therapy?

A (Answers may vary.) I think patients who have injuries need physical therapy.

(p. 69)

Q What is good about exercising in the water?

A (Answers may vary.) It is easy to lift heavy items in the water.

Key Words (pp. 68-69)

1. Ⓐ
2. Ⓑ
3. Ⓑ
4. Ⓐ
5. Ⓑ
6. Ⓑ
7. Ⓑ
8. Ⓐ

(p. 70)

Q How does aquatic therapy help patients improve their strength?

A The water provides resistance to improve patients' strength.

Comprehension Check (p. 72)

1. Ⓑ
2. Ⓒ
3. True
4. True
5. relaxes, blood
6. improve, condition
7. Ⓑ
8. advantage

Points to Remember (p. 73)

A. (clockwise)

muscles, pain, mobility, strength, circulation

B.

water, hydrotherapy, provides, injuries,
racehorses, benefits

Making Connections (p. 74)

Unit 9: b-c-e

Unit 10: d-f-a

Unit 11 A Body's Thirst

(p. 76)

Q When do you drink water?

A (Answers may vary.) I drink water when I feel thirsty.

(p. 77)

Q How many glasses of water do you drink every day?

A (Answers may vary.) I drink about eight glasses of water every day.

Key Words (pp. 76-77)

1. Ⓑ
2. Ⓑ
3. Ⓐ
4. Ⓑ
5. Ⓑ
6. Ⓐ
7. Ⓐ
8. Ⓐ

(p. 78)

Q What are the signs of dehydration?

A Thirst, dry eyes, mouth, and skin, and dark yellow urine are the signs of dehydration.

Comprehension Check (p. 80)

1. Ⓐ
2. Ⓑ
3. True
4. True
5. signals
6. exercising, hot
7. Ⓒ
8. survive

Points to Remember (p. 81)

A.

- ① thirsty

- ② eyes, dry
- ③ concentrate
- ④ dizzy
- ⑤ dark

B.

essential, half, Dehydration, recommend, depends, throughout

Unit 12 Unhealthy Eating Habits

(pp. 82-83)

Q Do you have unhealthy eating habits?

A (Answers may vary.) Yes, I do. Sometimes I eat too much food at once.

Key Words (pp. 82-83)

1. Ⓐ
2. Ⓑ
3. Ⓑ
4. Ⓑ
5. Ⓐ
6. Ⓑ
7. Ⓑ
8. Ⓐ

(p. 84)

Q How are anorexia and bulimia different?

A People who have anorexia eat very little food while people who have bulimia eat too much food.

Comprehension Check (p. 86)

1. ©
2. Ⓐ
3. False
4. True
5. weight, body
6. adult, treated
7. Ⓑ
8. limit

Points to Remember (p. 87)

A.

Anorexia: little, strict

Dangers: physical

Bulimia: much, control

B.

disorders, common, gain, overeat, throat, damage

Making Connections (p. 88)

Unit 11: f-a-c

Unit 12: b-d-e

Unit 13 Zero

(pp. 90-91)

Q How many tomatoes are there in each basket?

A There are nine tomatoes in the basket on the left page, but none in the basket on the right page.

Key Words (pp. 90-91)

1. Ⓐ
2. Ⓑ
3. Ⓐ
4. Ⓐ
5. Ⓑ
6. Ⓐ
7. Ⓑ
8. Ⓐ

(p. 92)

Q How did ancient civilizations indicate a placeholder?

A The Babylonians and Mayans used a special symbol to indicate a placeholder. And the Chinese used an empty space between their numbers.

Comprehension Check (p. 94)

1. ©
2. ©
3. True
4. False
5. number, placeholder
6. indicate
7. Ⓑ
8. determines

Points to Remember (p. 95)

A.

Past: ancient, symbol, empty

Present: Arabic, mid-7th, zero

B.

functions, position, zero, civilizations, number, accepted

Unit 14 Unlucky Numbers

(pp. 96-97)

Q What is strange about these elevator buttons?

A One elevator does not have a fourth floor button. The other does not have a thirteenth floor button.

Key Words (pp. 96-97)

1. a
2. b
3. a
4. a
5. a
6. b
7. a
8. a

(p. 98)

Q Where did the number 13 superstition come from?

A It originated from the story of the Last Supper.

Comprehension Check (p. 100)

1. c
2. c
3. False
4. True
5. connected
6. Superstitions
7. b
8. behind

Points to Remember (p. 101)

A.

4: China, death

13: Western, originated, Last Supper

B.

numbers, unlucky, Eastern, languages, number 13, consider

Making Connections (p. 102)

Unit 13: b-c-f

Unit 14: e-d-a

Unit 15 Melting Glaciers

(pp. 104-105)

Q What do you think glaciers do for us?

A (Answers may vary.) I think glaciers provide freshwater for us.

Key Words (pp. 104-105)

1. b
2. b

3. ⑥
4. ⑥
5. ①
6. ⑥
7. ①
8. ①

(p. 106)

Q What does the Ganges River provide for India and Bangladesh?

A It feeds freshwater to the land of India and Bangladesh.

Comprehension Check (p. 108)

1. ⑥
2. ⑥
3. True
4. True
5. disappear
6. walk, transportation
7. ③
8. feeds

Points to Remember (p. 95)

A. (from left to right)

Greenhouse, Glaciers, freshwater, habitats, ecosystems

B.

resources, melting, source, habitats, marine, reducing

Unit 16 A World without Forests

(pp. 110-111)

Q What do forests provide for us?

A (Answers may vary.) Forests provide fresh air and trees for us.

Key Words (pp. 110-111)

1. ①
2. ①
3. ①
4. ⑥
5. ①
6. ⑥
7. ①
8. ①

(p. 112)

Q Why are people burning the Amazon?

A People are burning the Amazon because of the demand for beef and palm oil.

Comprehension Check (p. 114)

1. ③
2. ⑥
3. True
4. False
5. absorbs, oxygen
6. release
7. ③

8. conscious

Points to Remember (p. 115)

A.

- ① Amazon
- ② moisture, clouds
- ③ generate
- ④ rain, salty

B.

burning, protect, lungs, converts, habitats,
home

Making Connections (p. 116)

Unit 15: f-a-c

Unit 16: b-d-e