

AMAZING ANIMALS 1

Answer Key

Possible answer(s):

1. I really love goats because they are playful and intelligent.
2. There are many animals with special abilities.
Some examples: Bats navigate using sonar, owls can turn their heads all the way around, and dogs can sense when people need help.

1A THE INCREDIBLE DOLPHIN

Answer Key

Before You Read

- A. (clockwise from top) 1. brain; 3. jaw;
4. flippers; 2. tail
B. b

Reading Comprehension

- A. 1. b; 2. b; 3. c (Para B); 4. a (Para B);
5. b (Para D)
B. Communication: a, c (Para B); Play: b, d, f
(Para C); Teamwork: e (Para D)

Reading Skill

- A. c
B. 1. b; 2. a

Critical Thinking

communication, play, and teamwork/planning

Possible answer(s): Evidence of intelligence in other animals includes tool use, the ability to pay selective attention, and recognition of patterns.

Vocabulary Practice

- A. 1. method; 2. assist; 3. smart; 4. special;
5. advantage
B. 1. alike; 2. intelligent; 3. system; 4. feelings;
5. communicate
C. 1. difference; 2. intelligence; 3. assistance

1B MASTER OF DISGUISE

Answer Key

Before You Read

A. 1. don' t know; 2. other animals; 3. the same

B. how

Reading Comprehension

A. 1. b; 2. c (Para B); 3. a (Para B); 4. c; 5. c

B. 1. a; 2. c; 3. c; 4. a; 5. b

Reading Skill

A. a

B. 1. b; 2. c; 3. a; 4. d

Critical Thinking

Possible answer(s): I think they are both smart in different ways. The dolphin is smart because it' s similar to humans—it can play and plan and communicate. The octopus is smart because it is so good at camouflage. I don' t know which is smarter, but I' d rather hang out with a dolphin!

Vocabulary Practice

A. 1. ability; 2. appearance; 3. hide; 4. produce; 5. patterns

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

C. 1. survival; 2. survive; 3. survivor

VIDEO A CHAMELEON' S COLORS

Answer Key

Before You Watch

A. 1. come to you; 2. bad; 3. quickly

B. 1. F (to communicate with each other);

2. T; 3. F (The forests and other areas where they live are disappearing or are being changed by people.)

While You Watch

A. See Before You Watch B.

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

Critical Thinking

Possible answer(s): I would like to find out more about the aardvark. It' s such a strange-looking animal. How does it use its large snout, long ears, and tail?

TRAVEL AND ADVENTURE 2

Answer Key

Possible answer(s):

1. I would like to visit China because I have always wanted to see the Terracotta Warriors and to stand on the Great Wall.
2. I went to New Zealand and hiked on glaciers and swam with dolphins. It was amazing!

2A THE TRIP OF A LIFETIME

Answer Key

Before You Read

A. 1. They started at Prudhoe Bay, Alaska, United States, and finished at Ushuaia, Argentina.

They traveled by bicycle. 2. They traveled 30,500 km. The trip took two years.

B. Possible answer(s): The two friends love bicycling; they wanted to travel in a way where they could see more of the world around them.

Reading Comprehension

A. 1. a; 2. c; 3. a; 4. b; 5. c

B. 1. c; 2. d; 3. a; 4. e; 5. b

Reading Skill

A. (boxes from top left in clockwise direction)

4. title; 5. compass; 3. scale; 2. source; 1. key

B. 1. was not; 2. greater; 3. northern; Belize

Critical Thinking

Possible answer(s): I think cycling through mountainous areas would be the most challenging because that would test their abilities physically. It might also be difficult if there were areas that had a lot of crime or traffic/pollution.

Vocabulary Practice

A. 1. b; 2. a; 3. b; 4. a

B. 1. advice; 2. journey; 3. route; 4. relax;

5. goals; 6. worry

C. 1. object (noun); 2. address (noun); 3. record (verb)

2B ADVENTURE ISLANDS

Answer Key

Before You Read

A. Possible answer(s): 1. The person is jumping off a tower, but he is attached to a cord or a vine so he won't hit the ground. 2. skydiving

B. Possible answer(s): These are unusual sports that you can do on the islands of Vanuatu.

Both activities are very dangerous!

Reading Comprehension

A. 1. b; 2. c; 3. a; 4. b; 5. c

B. 1. T (Para B); 2. NG; 3. NG; 4. F (Para C);

5. T (Para C)

Reading Skill

A. 1. a; 2. b; 3. a; 4. c

B. 1. Antarctica; 2. 10 meters; 3. because surfers just need a wave and a board;

4. skateboarding

Critical Thinking

Possible answer(s): I would suggest that they go whitewater rafting in the national park because it's beautiful and exhilarating.

Vocabulary Practice

A. 1. active; 2. nation; 3. almost; 4. bravery

B. 1. hit; 2. original; 3. century; 4. familiar;

5. tie; 6. escape

C. 1. owner; 2. idea; 3. song

VIDEO EXPLORING LAPONIA

Answer Key

Before You Watch

A. 1. is not; 2. in its original state; 3. set of things they take with them

B. Possible answer(s): The weather could be a challenge—it will be very cold and if there are storms, they might have to stay there for longer than they planned. It's in the wilderness, so there's probably no communication with the outside world. If they get hurt, it could be dangerous.

While You Watch

A. Possible answer(s): In summer, the sleds don't work, so the Haarbergs have to carry all their gear on their backs.

B. Possible answer(s): 1. It's easier in the winter because they can transport everything on sleds. 2. oatmeal, crackers, cheese, chocolate, and nuts; 3. She slipped on a rock and fell into a river, but she was not seriously hurt.

Critical Thinking

Possible answer(s): I would want to go on the bike trek because I could see different places and meet a lot of people. I would not try land diving—it sounds scary!

THE POWER OF MUSIC 3

Answer Key

Possible answer(s):

1. I like different kinds of music. I really like pop music from the 1980s. David Bowie is one of my favorite singers. I also like Lady Gaga.

2. Music is very important in my life. I almost always have music on when I'm at home or when I'm driving in the car. If I'm feeling sad or grumpy, music often cheers me up.

3A MOVE TO THE MUSIC

Answer Key

Before You Read

A. Possible answer(s): 1. three times a week; I go for a run and I do yoga. 2. I always listen to music when I exercise. I listen to classic rock when I run. During yoga classes, the instructor usually plays peaceful music.

B. Possible answer(s): I think music helps because it can distract us while we're exercising. It can also make us feel motivated to do our best. When the songs are upbeat, the music can put us in a good mood.

Reading Comprehension

A. 1. a; 2. c; 3. b (Para B and sidebar); 4. c;

5. b (Para D)

B. 1. distracts; 2. tired; 3. motivate; 4. make;
5. control; 6. depression

Reading Skill

A. 1. b; 2. a; 3. c

B. Main idea: Generally, songs with 120–140 beats per minute (BPM) are the best for exercising. 1. because most people want to get their heart rate up to this level during a workout; 2. Lady Gaga; 3. “Make You Feel My Love” by Adele

Critical Thinking

Possible answer(s): I prefer listening to songs in English when I exercise, because a lot of songs that I like in my own language are slower than 120 beats per minute. I like the song “Viva La Vida” by Coldplay.

Vocabulary Practice

A. 1. range; 2. seems; 3. steady; 4. beat; 5. beat;
6. energy

B. 1. distract; 2. mood; 3. control; 4. social;
5. pay attention

C. 1. in; 2. under; 3. out of

3B A MUSICAL BOOST

Answer Key

Before You Read

A. Possible answer(s): 1. Singing: emotion, hearing, memory, speech; Playing an instrument: emotion, movement, touch, sight, balance, hearing, memory; Listening to music: emotion, hearing. 2. I think music and language are similar in that they both involve hearing, emotion, and communicating with other people.

B. a

Reading Comprehension

A. 1. a; 2. b (Para B); 3. c; 4. c; 5. b

B. 1. F (Para B and C); 2. NG; 3. NG; 4. T (Para D);
5. NG; 6. T (Para E)

Reading Skill

A. Line 2: because of; Line 4: Since;
Line 7: due to

B. 1. because of its ability to express emotions across cultures; 2. Since he wanted to include a variety of Western music types; 3. probably due to the fact that the rhythms and melodies of Western music are similar to those of basic human speech

Critical Thinking

Possible answer(s): Listening to music helps me study some subjects such as science.

Classical music helps me because it doesn't have any words. If I am reading something difficult, I find music with lyrics too distracting.

Vocabulary Practice

A. 1. a; 2. a; 3. a; 4. b; 5. b

B. 1. connection; 2. improved; 3. damaged; 4. normally; 5. sharp

C. 1. connect; 2. react; 3. discuss

VIDEO THE MOZART EFFECT

Answer Key

Before You Watch

A. 1. figure out; 2. IQ; 3. experiment

B. 12 months of the year; 7 wonders of the world; 24 hours in a day; 18 holes on a golf course

While You Watch

A. See Before You Watch B.

B. 1. a; 2. b; 3. b

Critical Thinking

Possible answer(s): It was good that Dr. Coan tried a different kind of music. But I think that once participants knew the general format of the word puzzles, it was easier for them to figure out the answers for the other puzzles later on.

Answers will vary.

INTO SPACE 4

Answer Key

Possible answer(s):

1. There are a lot of good movies and TV shows about space! I liked the movie The Martian, where the main character is left alone on Mars and he has to figure out how to survive.
2. I think there might be life in outer space, because the universe is so big!

4A LIFE BEYOND EARTH?

Answer Key

Before You Read

- A. 1. planets; 2. galaxy; 3. telescope;
4. astronomer
B. a

Reading Comprehension

- A. 1. b; 2. c; 3. a (Para C); 4. b; 5. a (Para D)
B. 1. the Hubble Telescope (Para B); 2. no, because the distance between planets is too great (Para D); 3. flashes of light (Para D)

Reading Skill

A. Possible answer(s):

- intelligent life exists elsewhere—first reason is time. The second reason is size.
- powerful telescopes
- intelligent beings might eventually contact us; they could be trying to communicate with us now

- B. 1. 12 billion; 2. huge; 3. galaxies; 4. telescopes;
5. radio signals; 6. flashes of light

Critical Thinking

Possible answer(s): I think people would be very excited. I think governments around the world would need to work together. Some people would want to make contact immediately, but others would be scared that we could be invaded.

Vocabulary Practice

- A. 1. powerful; 2. search; 3. identify; 4. allow;
5. exist
B. 1. a; 2. b; 3. a; 4. b; 5. a
C. 1. harm; 2. care; 3. power

4B LIVING IN SPACE

Answer Key

Before You Read

A. 1. rocket; 2. astronauts; 3. establish; 4. colony

B. Possible answer(s): (Students should support their opinions with reasons.) Sending humans into space to live is a good idea because we might need to find new places to live, if climate change continues to impact Earth.

Reading Comprehension

A. 1. a; 2. b; 3. c (Para B); 4. c; 5. c

B. 1. c; 2. d; 3. b; 4. a

Reading Skill

A. Main idea: Humans should colonize space.

Supporting reasons: we can learn a lot; we can create new human societies on other planets; any advances made in space will benefit people on Earth.

B. 1. too expensive; 2. the journey is not short; 3. health problems; 4. life would be extremely difficult

Critical Thinking

Possible answer(s): It depends. I' d only want to move to Mars if everyone in my family moved, too. Otherwise I' d be too lonely.

Possible answer(s): The reading has given me more to think about. Stephen Hawking said that "our future should be safe" once we colonize space, which I agree with. But I would hate having to stay indoors most of the time (Para E)!

Vocabulary Practice

A. 1. independent; 2. surface; 3. mission; 4. neighbor; 5. environment

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

C. 1. unfamiliar; 2. work; 3. safe

VIDEO THE RED PLANET

Answer Key

Before You Watch

A. 1. humanity; 2. barren; 3. launch

B. 1. F (4.5 billion); 2. F (the Roman god of war);
3. T (Olympus Mons); 4. F (50 million years ago, all volcanic activity stopped)

While You Watch

A. See Before You Watch B.

B. 1. 4.5; 2. smallest; 3. Africa; 4. Earth's;
5. minus 142 / -142; 6. ice

Critical Thinking

Answers will vary.

CITY LIFE 5

Answer Key

Possible answer(s):

1. I think many people choose to live in cities because there are more job opportunities there. Also, big cities are usually more exciting because there is a lot to do and see (compared to small towns).

2. New York City, Los Angeles, Tokyo, Shanghai, London, Paris, Dubai, Nairobi, Rio de Janeiro; these cities are important because they are rich in history and have large populations. Some are capital cities, so they are political and/or business centers.

5A GLOBAL CITIES

Answer Key

Before You Read

A. Possible answer(s): 1. I've been to New York, London, and Paris. All are exciting places, with a lot of people and a fast-paced way of life. 2. All four cities are similar in terms of business. New York and London are similar in terms of people, too. Tokyo does not score as well in terms of entertainment and politics. Paris doesn't score as well in terms of people.

B. Possible answer(s): Nairobi, in Kenya, might become more powerful because it is a rising technology hub and could attract

international businesses and talented people.

Reading Comprehension

A. 1. a; 2. b; 3. c (Para C); 4. a; 5. a

B. 1. Shanghai; 2. Indian; 3. middle class;

4. Egypt; 5. politics

Reading Skill

A. 1. powerful; 2. red; 3. media; 4. yellow;

5. politics

B. 1. a; 2. b; 3. c

Critical Thinking

Answers will vary.

Vocabulary Practice

A. 1. options; 2. especially; 3. attracts;

4. international; 5. predict

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

C. 1. net; 2. national; 3. section

5B A TASTE OF TWO CITIES

Answer Key

Before You Read

A. 1. neighborhood; 2. settle; 3. immigrants

B. Possible answer(s): Maybe there are Japanese immigrants in São Paulo, and Brazilian immigrants in Hamamatsu.

Reading Comprehension

A. 1. b; 2. a (Para B); 3. b (Para B); 4. b;

5. c

B. 1. NG; 2. F (Para C); 3. NG; 4. T (Para C);

5. F (Para C)

Reading Skill

A. Possible answer(s): Main idea: Why is each country's food so popular in the other?

Key details: In 1908, people from Japan began moving to Brazil to work on coffee plantations. / Over time, the nikkei opened many Japanese markets and restaurants in the Liberdade district. / In the 1980s ... [o]ver 300,000 Japanese-Brazilians moved to Japan, mainly to work in electronics and automobile factories. / Over time, a number of Brazilian restaurants and stores opened in Hamamatsu. / Today, it's possible to eat excellent Japanese food in São Paulo and traditional Brazilian

cuisine in Hamamatsu.

- B. 1. coffee; 2. Liberdade; 3. markets;
4. sushi; 5. tourists; 6. 1980s; 7. factories;
8. Portuguese; 9. bread

Critical Thinking

Possible answer(s): There are many ways that my country's cuisine has been influenced by foreign cuisines. Pizza (from Italy) and noodles (from China) are widely available. We also have spicy dishes with hot peppers from Mexico.

Vocabulary Practice

- A. 1. popular; 2. district; 3. coast; 4. traditional;
5. stores; 6. goods
B. 1. a; 2. b; 3. a; 4. b
C. 1. population; 2. communication; 3. generation

VIDEO NEW YORK SKYSCRAPER

Answer Key

Before You Watch

- A. 1. five years; 2. Possible answer(s): the long pole on the top of the building; the spire is 78 meters tall (subtract 288 from 366);
3. Possible answer(s): the part of the building under the ground
B. Possible answer(s): I think building the spire on such a tall building must have been very difficult.

While You Watch

- A. a; b; d
B. 1. see what he is lifting; 2. large size;
3. dangerous; 4. above

Critical Thinking

Possible answer(s): Pros: good views, 24-hour security, easier to maintain (no yard); Cons: risk of fires, lack of space, not a lot of nature

BACKYARD DISCOVERIES 6

Answer Key

Possible answer(s):

1. I live near the ocean, and I spend a lot of time

there swimming in the summer and going for walks in the winter.

2. There are seagulls and crabs on the beach, and also seaweed and beach roses that grow nearby.

6A IN ONE CUBIC FOOT

Answer Key

Before You Read

A. 1. organisms; 2. tiny; 3. soil

B. Possible answer(s): They break down dead plants and animals into nutrients, so that the living animals and plants in the area can thrive.

Reading Comprehension

A. 1. a; 2. b; 3. b (Para B); 4. c (Para C); 5. a

B. 1. a healthy environment; 2. many were new species (Coral Reef caption); 3. Monteverde, Costa Rica (Tropical Cloud Forest caption)

Reading Skill

A. Paragraph B Line 2: When; Line 3: Later; Line 4: eventually; Line 5: then

B. (clockwise from top) a; e; d; f; b; c

Critical Thinking

Possible answer(s): a city park—I want to know whether urban life affects the variety of organisms; a riverbed—I wonder if there are different organisms here in comparison to the coral reef; a cave—surely a dark cave would have fewer organisms. I’ d love to be proved wrong!

Vocabulary Practice

A. 1. species; 2. cycle; 3. regions; 4. scientists; 5. discovered

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

C. 1. up with; 2. out of; 3. into

6B WHAT’ S IN YOUR NEIGHBORHOOD?

Answer Key

Before You Read

A. Possible answer(s): 1. Anyone can be a citizen scientist. 2. They take photos or interview people and then share their pictures and

information on the Internet. This helps scientists get important information quickly.

B. a; c

Reading Comprehension

A. 1. b; 2. c; 3. a; 4. b (sidebar); 5. b (sidebar)

B. 1. F (Para A); 2. T (Para B); 3. NG;

4. F (Para D); 5. NG

Reading Skill

A. a. 3; b. 4; c. 2; d. 1

B. 1. website; 2. tips; 3. nest; 4. visit; 5. upload

Critical Thinking

Possible answer(s): Project name: NestWatch;

Purpose: to report on bird nesting sites so that researchers can track bird populations and how their nesting sites change over time; How

you can take part: Take a short test to be a NestWatcher and then find a nest, visit it every three or four days and record what you see, then upload your observations to the website.

Vocabulary Practice

A. 1. research; 2. upload; 3. review; 4. images;

5. contribute

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

C. 1. place; 2. care; 3. a break

VIDEO BIOBLITZ

Answer Key

Before You Watch

A. 1. c; 2. a; 3. d; 4. b

B. Possible answer(s): Problems—bad weather conditions, poor Wi-Fi connection. Yes, I'd be interested in taking part in a BioBlitz because I'd like to contribute to scientific research.

I might meet people with similar interests, too.

While You Watch

A. a. 4; b. 2; c. 5; d. 3; e. 1

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

Critical Thinking

See Critical Thinking Unit 6B for an example.

WHEN DINOSAURS RULED 7

Answer Key

Possible answer(s):

1. I' ve seen Jurassic Park. I liked it because it' s hard to imagine animals that huge, and the movie showed how powerful dinosaurs were.
2. I think people are fascinated because the dinosaurs were so powerful, yet they still became extinct. It' s also interesting to imagine what Earth would be like if dinosaurs still existed today.

7A THE TRUTH ABOUT DINOSAURS

Answer Key

Before You Read

A. 1. prehistoric reptiles; 2. 66 million years ago; if an animal is extinct, it means that it no longer exists.

B. 1. Was T. rex a powerful predator? Yes or No; 2. Could dinosaurs fly? No; 3. Are all dinosaurs extinct? Not entirely (birds)

Reading Comprehension

A. 1. b; 2. c (Para A); 3. c; 4. b; 5. c (Para D)

B. 1. c (Para C); 2. a (Para A); 3. a (Para A);

4. b (Para B); 5. c (Para C)

Reading Skill

A. 1. like; 2. For example; 3. such as

B. 1. the two-meter Troodon; 2. in the movies, T. rex is often a fast-moving giant;

3. Tupuxuara

C. 1. c; 2. e; 3. f; 4. a; 5. d

Critical Thinking

- Possible answer(s): (Para A) But they now believe a few dinosaurs were intelligent.
(Para B) While some scientists think Tyrannosaurus rex was a powerful predator, others think the opposite is true. / It was too large to move very quickly, so it probably moved about as fast as an elephant. (Para C) Scientists believe pterosaurs were actually very heavy. So they probably could not take off from the ground like birds.

Possible answer(s): (Para A) But they now believe a few dinosaurs were intelligent.
(Para B) While some scientists think Tyrannosaurus rex was a powerful predator, others think the opposite is true. / It was too large to move very quickly, so it probably moved about as fast as an elephant. (Para C) Scientists believe pterosaurs were actually very heavy. So they probably could not take off from the ground like birds.

Possible answer(s): I think it's likely that a few dinosaurs were intelligent. It seems like the T. rex must have been a predator, but it's possible that it couldn't move well. Maybe pterosaurs could take off like birds, but scientists haven't found out how yet.

Vocabulary Practice

- A. 1. in reality; 2. giant; 3. completely;
4. probably; 5. climate
B. 1. relative; 2. heavy; 3. hunter; 4. opposite
C. 1. teacher; 2. actor; 3. inventor

7B MYSTERY OF THE TERRIBLE HAND

Answer Key

Before You Read

- A. 1. claws; 2. fossils; 3. humps
B. Students' predictions will vary. What is unusual about this dinosaur are its huge "hands" and claws. It also had a hump on its back.

Reading Comprehension

- A. 1. c; 2. b (Para A and B); 3. a (Para C);
4. c (Para C); 5. b (Para D)
B. 1. D; 2. B; 3. A; 4. C

Reading Skill

- A. 1. c; 2. a; 3. b; 4. d
B. 1. an area in Mongolia's Gobi Desert;
2. terrible hand; 3. a type of dinosaur that looked like a modern-day ostrich

Critical Thinking

Possible answer(s): Maybe it could store water and it was a way to stay hydrated.

Vocabulary Practice

- A. 1. length; 2. estimate; 3. similar; 4. Perhaps
B. 1. b; 2. b; 3. b; 4. a; 5. b; 6. a
C. 1. ask for; 2. express; 3. different

VIDEO DINOSAURS: A BRIEF HISTORY

Answer Key

Before You Watch

- A. 1. plants; 2. other animals; 3. a rock that travels through space
B. a; c; d

While You Watch

- A. See Before You Watch B.
B. 1. a; 2. b; 3. b; 4. b

Critical Thinking

Possible answer(s): I would like to bring back the Deinocheirus, because I want to find out what the hump is really used for! I would be scared to get too close, but I would be interested to see something that enormous!
Possible answer(s): I don't think it's a good idea to bring back dinosaurs because they may attack the wildlife we have today.

STORIES AND STORYTELLERS 8

Answer Key

Possible answer(s):

1. One of my favorite books is *The Giver* by Lois Lowry, about a future world that seems perfect at first, but isn't. It falls to Jonas, a young boy, to change this world. I like this book because it's very meaningful, yet easy to read.
2. "Beauty and the Beast" is still popular today because it teaches an important lesson about thinking beyond someone's looks. Beauty falls in love with the Beast because of his personality.

8A THE BROTHERS GRIMM

Answer Key

Before You Read

A. Possible answer(s): They wrote fairy tales; they first wrote these for adults.

Reading Comprehension

A. 1. c; 2. a; 3. b (Para A); 4. c; 5. b (Para C)

B. Possible answer(s): 1. "Cinderella," "Snow White," "Little Red Riding Hood" ; 2. "Hansel and Gretel" ; 3. They "softened" the tales and added drawings. 4. work hard, be good, listen to your parents

Reading Skill

A. Answers will vary.

B. 1. storytellers; 2. similar; 3. dangerous; 4. adults; 5. children

Critical Thinking

Possible answer(s): The TV show *Once Upon a Time* retells classic fairy tales. In this show, the fairy-tale characters—including Snow White and her evil stepmother—are transported to modern-day United States! One interesting change is that the evil stepmother starts off as bad, but then you understand her story, and she becomes good. The moral is that everyone has good inside of them and is capable of change.

Vocabulary Practice

- A. 1. collection; 2. magical; 3. scary; 4. Although;
5. beliefs; 6. published
B. 1. text; 2. primarily; 3. added; 4. magical;
5. suitable; 6. beliefs; 7. published
C. 1. music; 2. magic; 3. origin

8B THE SEVEN RAVENS

Answer Key

Before You Read

- A. 1. 8; 2. to get water for their sister; 3. The boys began to fight, and the water jug fell into the well. This made the boys scared to go home.
B. Possible answer(s): The boys will be turned into ravens. The girl will grow up and save her brothers.

Reading Comprehension

- A. 1. b; 2. a; 3. b; 4. c (Para C); 5. b
B. a. 2; b. 7; c. 1; d. 4; e. 8; f. 5; g. 3; h. 6

Reading Skill

- A. 1. Hansel and Gretel; 2. stepmother;
3. children; 4. house; 5. old woman;
6. old woman / witch; 7. children; 8. oven
B. 1. her finger; 2. seven plates and seven cups;
3. the brothers and their sister

Critical Thinking

Possible answer(s): I would make the girl find out about her brothers in an interesting way. Maybe there can be a magical guide who tells her how to find her brothers. I would definitely soften the story. Instead of cutting off her finger, maybe the girl can give up something precious that she owns, like an expensive watch.

Vocabulary Practice

- A. 1. a; 2. b; 3. a; 4. a; 5. b; 6. a
B. 1. determined; 2. affect; 3. forget
C. 1. affected; 2. effect; 3. affect

VIDEO FAIRY-TALE CASTLE

Answer Key

Before You Watch

A. 1. b; 2. a; 3. c

While You Watch

A. a and c

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

Critical Thinking

Possible answer(s): I think the Harry Potter books will still be popular hundreds of years from now.

The book's themes of family, friendship, and good vs. evil will continue to be relevant in the future. Also, it's fun to read stories about magic and the supernatural.

UNUSUAL JOBS 9

Answer Key

Possible answer(s):

1. window cleaners for skyscrapers, food tasters
2. I think it could be fun being a food taster. But I am scared of heights, so I definitely don't want to clean windows on skyscrapers!

9A MEET THE METEORITE HUNTER

Answer Key

Before You Read

A. Possible answer(s): 1. a space rock that lands on Earth; 2. I think scientists are interested because they can learn more about outer space by studying the meteorites.

B. Possible answer(s): 1. Michael Farmer is a meteorite hunter. He goes around the world to find meteorites. Then he sells them. 2. He probably has to go to remote places to find the meteorites.

Reading Comprehension

A. 1. a; 2. b (Para A); 3. a (Para B); 4. b (Para C); 5. c

B. 1. the law; 2. meteorite pieces; 3. a pallasite; 4. new meteorites; 5. scientists

Reading Skill

Reading Skill

A. Line 1: 200 or so; Line 2: One; Line 3: in 2011;
Line 5: just over 300, around 2.1; Line 6:
~~second-oldest~~; Line 8: over a year; Line 9:
~~approximately 10 times~~

A. Line 1: 200 or so; Line 2: One ; Line 3: in 2011;
Line 5: just over 300, around 2.1; Line 6:
second-oldest; Line 8: over a year; Line 9:
approximately 10 times

B. 1. about 70 or so; 2. \$100,000; 3. around
4.5 billion years old; 4. 53 kilograms

Critical Thinking

Possible answer(s): I think meteorites should
belong to museums or scientists, because we can
learn a lot from their research. Maybe smaller
pieces that are similar to ones that are already
being studied could be sold to private collectors.

Vocabulary Practice

A. 1. in demand; 2. illegal; 3. law; 4. valuable;
5. worth; 6. locate

B. 1. freeze; 2. heavy; 3. a set of gold coins;
4. buys

C. 1. chest; 2. buried; 3. national

9B SMOKEJUMPERS

Answer Key

Before You Read

A. 1. burn; 2. hectare; 3. wildfire

B. Possible answer(s): They jump from planes
into areas where there' s a fire that no one else
can reach. They try to stop the spread of the
fire by cutting down the trees around it.

Reading Comprehension

A. 1. b; 2. c (Para B); 3. a (Para C); 4. c;

5. b (Para D)

B. Possible answer(s): 1. shovels and axes (Para B);
2. burnable material, like dry grass and dead
trees (Para B); 3. how to find food in the forest
or make simple furniture from trees (Para C)

Reading Skill

A. How smokejumpers fight fires (Para B); What
a smokejumper is (Para A); Why people like
being smokejumpers (Para D); Requirements

to be a smokejumper (Para C)

B. Possible answer(s):

Para A—special firefighter/jump into hard-to-reach areas;

Para B—examine land/main goal to slow progress of fire/use basic equipment;

Para C—mostly men, but more women now/height and weight important factors/need to be able to survive in the wilderness;

Para D—good job for “tough guys”

Critical Thinking

Answers will vary.

Possible answer(s): 1. a circus performer; They like to travel and do thrilling stunts. 2. a war journalist; They want to show the world what is really happening in war zones. 3. a window cleaner for a high-rise building; They like heights, and they get to see a city in a unique way.

Vocabulary Practice

A. 1. employed; 2. race; 3. occupation; 4. equipment; 5. capable; 6. majority

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

C. 1. improve; 2. equip; 3. employ

VIDEO SNAKE CATCHERS

Answer Key

Before You Watch

A. 1. is not; harmful; 2. were born; 3. wet and soft; 4. send and receive radio or television signals

While You Watch

A. 1. reptiles; 2. 7; 3. 90; 4. 1.5

B. 1. a; 2. b; 3. b

Critical Thinking

Possible answer(s): golf ball divers, meteorite hunters, smokejumpers, hackers, upcyclers, circus performers, war journalists, private detectives, ski instructors, window cleaners working on high-rises, volunteer firefighters, snake catchers. Answers will vary for jobs that students are interested in or best suited for.

Example answer: I would like to be an upcycler

because I like being creative and I want to help the environment.

UNCOVERING THE PAST 10

Answer Key

Possible answer(s):

1. the Parthenon; the Coliseum; the Pyramids; Teotihuacan; Machu Picchu; the terracotta soldiers
2. Answers will vary.

10A THE ARMY' S TRUE COLORS

Answer Key

Before You Read

- A. 1. Archeologists; artifacts; 2. tomb; 3. warrior
- B. Possible answer(s): The colors faded over time; when outside air hit the colors, it caused the coating underneath the paint to fall off.

Reading Comprehension

- A. 1. b; 2. a; 3. b; 4. a (Para C); 5. c (Para D)
- B. 1. emperor; 2. tomb; 3. army; 4. brown; 5. liquid; 6. plastic

Reading Skill

- A. 1. b; 2. a; 3. a; 4. b; 5. a

Critical Thinking

Possible answer(s): Pros: more tourists might come to visit; people can see what the army originally looked like; it would show how different the soldiers originally looked from one another. Cons: paint might make the warriors disintegrate; current artists may not be able to match the original colors.

Vocabulary Practice

- A. 1. constructed; 2. protect; 3. techniques; 4. army; 5. revealed; 6. liquid; 7. network
- B. 1. a; 2. b; 3. a
- C. 1. a secret; 2. the truth; 3. the cause

10B WONDERS OF EGYPT

Answer Key

Before You Read

A. 1. T; 2. T; 3. T

B. c

Reading Comprehension

A. 1. a; 2. a; 3. c; 4. b; 5. b (Para D)

B. 1. F (about 80 years); 2. NG; 3. T (Para B);

4. T (Para C)

Reading Skill

A. 1. ordinary Egyptians; 2. 80 years; 3. teams and roles; 4. arthritis; 5. 30–35 years;

6. medical care; 7. proud; 8. national project

Critical Thinking

Possible answer(s): The author thinks the pyramid builders had mostly positive feelings about their work because he/she stresses that even though the work was hard, the workers had enough food and received medical care.

Also, paragraph D is about how proud the workers were. They wrote Friends of Khufu on a wall, and the quote from Zahi Hawass emphasizes that the workers were proud to be part of a national project.

Vocabulary Practice

A. 1. competed; 2. According to; 3. role; 4. task; 5. proud; 6. icon

B. 1. ordinary; 2. task; 3. confirmed; 4. block; 5. involved

C. 1. impossible; 2. complete; 3. give

VIDEO CITY IN THE CLOUDS

Answer Key

Before You Watch

A. 1. empire; 2. aspect; 3. ruins; 4. engineering

While You Watch

A. 1. 500; 2. stone; 3. metal; 4. earthquakes;

5. farmer; 6. 2007

Critical Thinking

Possible answer(s): It depends. I think that it's OK for some artifacts to be in museums to educate more people about the historical sites. However, I think that most artifacts found today should be left at their original sites or at least be looked after by experts in that country.

Answers will vary.

PLASTIC PLANET 11

Answer Key

Possible answer(s):

1. I think global warming, air pollution, and the disappearance of the bee population are some of the most important issues facing the environment today.
2. I live near the ocean, so my community organizes a beach clean-up day a few times a year. There is also a move to recycle materials and compost food to cut down on waste.

11A THE PROBLEM WITH PLASTIC

Answer Key

Before You Read

A. 1. Possible answer(s): building, packaging, industrial machinery, textiles; almost 40 percent; 2. 448 million tons; 3. building and construction—35 years; packaging—less than six months

B. Possible answer(s): Sea animals could eat or get caught in the plastic.

Reading Comprehension

A. 1. c; 2. b; 3. a; 4. b (Para D); 5. b (Para C)

B. 1. T (Para B); 2. F (Para B); 3. NG; 4. F (Para D); 5. NG

Reading Skill

A. "Imagine you ate lunch and then just felt weak ... and hungry all day," says marine biologist Matthew Savoca. "That would be very confusing."

According to Savoca, "Single-use plastics are the worst."

"I think we' ll know the answers in 5 to 10 years' time," says Debra Lee Magadini from Columbia University.

Possible answer(s): The first and second quotes support the statements in the reading.

The third quote gives expert evidence.

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

Critical Thinking

Possible answer(s): Ocean plastic could affect people who eat seafood, because they could be eating the plastic that the sea animals ate. It is also unpleasant to swim in plastic, or to see trash in the water. More importantly, the plastic could make certain sea creatures extinct or endangered, which could affect all of us. It's hard to know how the delicate balance of the ecosystem works, but plastic can't be good for it.

Vocabulary Practice

A. 1. Rescue; 2. recycle; 3. common; 4. huge

B. 1. take it out; 2. usually happens; 3. strong;
4. difficult; 5. all; 6. continue far into the future

C. 1. extend; 2. except; 3. extract

11B FIVE TIPS FOR USING LESS PLASTIC

Answer Key

Before You Read

A. Possible answer(s): plastic fork, plastic rings to hold soda cans, bottle top, glove, straw, soda bottle; Yes, many of them are single-use items.

B. Possible answer(s): I can use reusable bottles and bring my own fork and knife when I am going to eat fast food.

Reading Comprehension

A. 1. a; 2. b (Para B); 3. a; 4. c (Para E); 5. c

B. 1. Bundanoon; 2. San Francisco; 3. Seattle;
4. United Kingdom; 5. Denmark; 6. Norway

Reading Skill

A. 1. Roughly 10 percent are used in the United States alone. 2. Skip the straw. 3. Buy a reusable bottle and fill it with any type of beverage you like. 4. Some cities ... have completely or partially banned bottled water. 5. ... but it is possible to recycle most bottles and milk or juice cartons.

B. 1. c; 2. c; 3. b; 4. a; 5. b

Critical Thinking

Answers will vary.

Vocabulary Practice

- A. 1. reduce; 2. tax; 3. Customers; 4. containers;
5. globally
B. 1. quit; 2. bans; 3. pollute; 4. avoid; 5. refund
C. 1. warming; 2. problem; 3. awareness

VIDEO OUR PLASTIC WORLD

Answer Key

Before You Watch

- A. 1. b; 2. c; 3. d; 4. a
B. Possible answer(s): pens, computer mouse, phone case, water bottles; I probably use at least 30 plastic items a day. I try not to use single-use plastics, but a lot of times I have to because of food packaging.

While You Watch

- A. 1. oil; 2. single-use; 3. plants; 4. faster
B. 1. a; 2. b; 3. b

Critical Thinking

Possible answer(s): Your project name: Cash for Coffee Cups; Project's purpose/focus: to get people to stop using single-use coffee cups, which have plastic lids; Actions required: Convince coffee shops to charge a small fee for a single-use cup, to encourage everyone to bring a reusable coffee cup from home. Use the money to help fund bioplastics research.

VANISHED! 12

Answer Key

Possible answer(s):

1. Marco Polo—China; Ibn Battuta—Asia, the Middle East, Africa; Neil Armstrong—the moon; Zheng He—India
2. Glenn Miller, Kurt Cobain, Anastasia Romanov, Tutankhamun, Steve Fosset

12A MYSTERY ON THE MOUNTAIN

Answer Key

Before You Read

A. 1. 8,850; 2. 4; 3. Nepal; 4. 1953; 5. cold;
6. oxygen

B. Possible answer(s): I think it will be about the two men who disappeared on Mount Everest in 1924. Maybe now the mystery has been solved.

Reading Comprehension

A. 1. b; 2. a; 3. c (Para B and C); 4. a; 5. b

B. George Mallory: b, c; Andrew Irvine: d;

Both: a, e

Reading Skill

A. Possible answer(s): Evidence for: the team found Mallory's oxygen tank; no photos.

Evidence against: difficult path / poor equipment; no frostbite.

B. 1. oxygen; 2. body; 3. photo; 4. leave;
5. difficult; 6. equipment; 7. frostbite;
8. common

Critical Thinking

Possible answer(s):

I think they reached the top because Mallory did not have the photo of his wife anymore.

If someone found the camera that Mallory and Irvine used, that could solve the mystery.

Vocabulary Practice

A. 1. unfortunately; 2. achievement; 3. proved;
4. path; 5. suffered

B. 1. dead body; 2. parts; 3. tent; 4. don't think;
5. makes no

C. 1. what; 2. who; 3. when

12B THE MISSING PILOT

Answer Key

Before You Read

A. the first woman to fly a plane alone across the Atlantic Ocean

B. Possible answer(s): Their plane might have run out of fuel and crashed in the ocean, or maybe they landed on a deserted island.

Reading Comprehension

A. 1. b; 2. c (Para A); 3. c (Para A); 4. c; 5. b

B. 1. d; 2. a; 3. b; 4. c

Reading Skill

- A. 1. without a doubt; 2. likely; 3. Perhaps;
4. might; 5. could; 6. probably
B. Possible answer(s): 1. 5; 2. 4; 3. 2; 4. 1; 5. 1;
6. 4

Critical Thinking

Earhart got lost somewhere over the Pacific,
her plane ran out of gas, and she crashed into
the sea.

Possible answer(s): I agree with the author.

I think that' s probably what happened, but
I like the idea that they made it to the island.

Vocabulary Practice

- A. 1. headed; 2. effort; 3. investigation;
4. disappearance; 5. bright
B. 1. bright and clear; 2. hits the ground or sea
hard; 3. airport; 4. get closer to; 5. answer
or reply
C.1. ability; 2. like; 3. appear

VIDEO EARHART MYSTERY

Answer Key

Before You Watch

- A. 1. thirst; 2. spy; 3. prisoner; 4. pretend; 5. reef

While You Watch

- A. 1. gas; 2. water; 3. died; 4. reason;
5. housewife

Critical Thinking

Possible answer(s):

Some people think the moon landings were
filmed in Hollywood. / Some people deny that
global warming exists. / Some people believe
the Earth is flat.

I think some people believe in conspiracy
theories because they do not trust those in
power or because they do not understand the
facts. I usually do not believe in conspiracy
theories as I trust the facts given by scientists
and experts. / I used to think that the
pyramids in Egypt were built by space aliens,
but now that archeologists have discovered
the site where the workers once lived, I can
see from the evidence that the pyramids were
built by humans.