

Workbook 5 Answer Key

Unit 1

- 1 2 turtle 3 prickly pear cactus 4 goose
5 porcupine
- 2 living organisms
- 3 b 3 c 1 d 5 e 2
- 4 1 c
2 Suggested answer: He keeps a diary to remember events.
- 5 1 F 2 F 3 T
- 6 Students' own answers

Lesson 1

- 1 a chameleon
- 2 2 f 3 d 4 g 5 b 6 a 7 e
- 3 2 ran, showed
3 went, didn't see
4 Did (you) inherit
5 did (the chameleon) change
6 flew, didn't get
7 were, didn't touch
8 did (this coconut) get, traveled
- 4 2 Did (your teacher) like 3 did (she) say 4 told
5 worked 6 found 7 wanted 8 asked 9 gave
10 did (they) ask 11 asked 12 explained
13 enjoyed
- 5 **Parts of Animals and Plants:** eyes, flowers, hair, leaves, mane, neck, pods, spine, stem
Adjectives to Describe Physical Appearance: attractive (example), big, dark, dry, light, long, prickly, sharp, short, smooth, tall, wrinkled
- 6 flowers, flowers, smooth, stem, prickly
- 7 Students' own answers

Lesson 2

- 1 Students' own answers
- 2 1 hedgehog 2 porcupine 3 porcupine
- 3 2 stimulus 3 behavior 4 hibernate
5 protection 6 migrate
- 4 2 reacts 3 behavior 4 hibernation
5 protect 6 survive
- 5 2 reacts – reactions 3 behave – behavior
4 hibernate – hibernation 5 protect – protection
6 survive – survival
- 6 Students' own answers
- 7 Students' own answers. The journey is made by a bird, the Arctic tern.
- 8 1 b 2 c 3 a
- 9 Students' own answers

Unit 2

- 1 2 e 3 d 4 a 5 c
- 2 1 environment 2 food web 3 food chain
4 interact 5 ecosystem
- 3/4 1 They have black stripes on a white coat.
2 Zebras have stripes to protect them from predators and from the sun.
3 They look like horses and donkeys.
- 5 Students' own answers.

Lesson 1

- 1 2 desert 3 grassland 4 tundra 5 rain forest
- 2 b 1 c 3 d 2 e 5
- 3 Students' own answers
- 4 Students' own answers (for example: coat, hat, gloves, boots)

Workbook 5 Answer Key

- 5 1 Sally is visiting the tundra.
2 The ground was frozen.
3 The caribous were eating grass and mushrooms.
4 They dig through the snow to find food.

6 Students' own answers

Lesson 2

- 1 2 energy pyramid 3 resources 4 energy
5 food web 6 food chain
- 2 Decomposers: bacteria, fungi, slug
Carnivores: alligator (example), lion, mountain lion, owl
Herbivores: deer, grasshopper, rabbit
Arrows from Herbivores to Carnivores to Decomposers
- 3 2 raccoon 3 deer 4 owl
5 squirrel 6 mountain lion
- 4 a 5 b 6 c 3
- 5 2 There are more trees in the rain forest than in the desert.
3 In a food pyramid, less energy flows to consumers than producers have.
4 There's less energy in the higher levels of an energy pyramid.
5 The mountain lion eats more than one type of prey.
6 When a population grows, more resources are needed.

Lesson 3

- 1 1 d 2 a 3 e 4 c 5 b
- 2 1 change 2 environment 3 positive 4 negative
5 competition
- 3 Suggested answers:
2 Some changes help living, and others harm them.
3 Some soils are sandy, and other soils are fertile.
4 Some animals survive better than others.
5 Some people harm the environment, and others protect it.
- 4 Students' own answers

Unit 3

- 1 2 rice 3 spinach 4 fish 5 beans
6 milk 7 meat 8 orange

2 Answers and suggested answers:

Dairy	Protein	Grains	Fruits	Vegetables
butter	fish	rice	orange	spinach
milk	meat	beans	melon	cabbage
cheese	eggs	lentils	pineapple	lettuce
yogurt	nuts	corn		

- 3 1 c 2 c 3 a 4 b 5 a 6 b 7 c
- 4 1 nutrients 2 nutrition 3 diet

Lesson 1

- 1 1 c 2 a 3 d 4 b
- 2 2 proteins 3 carbohydrates 4 starch
5 Calories 6 fats 7 glucose 8 cholesterol
- 3 1 Fats and Sweets 2 Milk and Meat
3 Fruits and Vegetables 4 Bread and Rice
Fats and Candy is the smallest.
Bread and Rice is the largest.
- 4 Students' own answers
- 5 c
- 6 Students' own answers

Lesson 2

- 1 2 adjective 3 adjective 4 adjective
5 noun 6 noun 7 adjective
- 2 1 overnourished (example), dairy
2 malnutrition, deficient
3 undernourished, grains
4 obesity
- 3 1 C 2 B 3 A
- 4 1 undernourished 2 normal 3 overnourished

Workbook 5 Answer Key

- 5 Mr. Bridge is quite healthy.
- 6 1 should 2 should 3 shouldn't 4 shouldn't
- 7 Students' own answers

Review 1-3

- 1 1 b 2 c 3 b 4 c 5 a 6 c 7 a 8 c
- 2 Across: 2 goose 3 tundra 6 protein 7 starch
8 desert 9 fiber
Down: 1 glucose 2 grains 4 moth 5 turtle
- 3 1 F 2 F 3 T 4 T 5 T 6 F

Unit 4

- 1 2 c – flood 3 b – ash 4 f – landslide 5 d – lava
6 a – river
- 2 2 V 3 F 4 V 5 L 6 F
- 3 A 2 B 1
- 4 1 B 2 B 3 A
- 5 Students' own answers

Lesson 1

- 1 2 earthquake 3 epicenter 4 fault 5 focus
6 volcano 7 drought
- 2 2 F 3 F 4 T 5 F 6 T
- 3 geysers (and volcanoes)
- 4 2 DS 3 F 4 F
- 5 Students' own answers

Lesson 2

- 1 Fresh Water: glaciers, groundwater, ice caps, lakes, ponds, rivers, snow
Drinking Water: groundwater, lakes (example), rivers
Salt Water: oceans, lakes
- 2 2 freshwater lake 3 salt water 4 ocean
5 ice caps 6 glaciers 7 groundwater
8 drinking water
- 3 3%
- 4 1 in the oceans 2 in glaciers and ice caps 3 31%
- 5 Students' own answers

Lesson 3

- 1 2 precipitation 3 evaporation
4 recycled 5 water cycle 6 water vapor
7 storage
- 2 1 b 2 a 3 c 4 b
- 3/4 both
- 5 1 when the water started to boil / reached 100°C
2 the evaporation
3 liquid
4 the vapor
5 b

Unit 5

- 1 1 d 2 c 3 e 4 a 5 b
- 2 2 solar system 3 space 4 star patterns
5 phases of the moon
- 3 Suggested answer: space, the life of an astronaut, star patterns, the moon
- 4 2 F 3 T 4 F 5 T

Workbook 5 Answer Key

Lesson 1

- 1 a telescope
- 2 1 Galileo's telescope made objects eight times bigger in size.
2 People didn't like Copernicus's theory because they believed that Earth was the center of the universe.
3 Galileo wrote about space until the last day of his life.
- 3 1 star 2 cause 3 astronomer 4 effect
5 constellation
- 4 farmers and sailors
- 5 1 the ancient Greeks
2 When they could see all of the constellation of Orion
3 Because it is right above the North Pole
- 6 1 to move 2 can't
- 7 Students' own answers

Lesson 2

- 1 1 solar eclipse 2 lunar eclipse 3 orbit
- 2 False sentence: When the sun passes between the moon and Earth, there's a solar eclipse.
- 3 b
- 4 b 3 c 5 d 2 e 4 F 6
- 5 1 The moon shines because it reflects sunlight.
2 During a total solar eclipse, it becomes dark because the moon casts a shadow on Earth.
3 There's a full moon tonight because the moon's bright side directly faces Earth.
4 Don't worry if you miss a lunar eclipse because there are several (lunar eclipses) in a year.

Lesson 3

- 1 1 second 2 fourth 3 first 4 third
- 2 2 solar 3 outer 4 inner 5 asteroids 6 comets
7 gravity 8 ellipse
- 3 Students' own answers
- 4 Which planet would you like to visit, and why?
- 5 1 Neptune 2 Neptune's moons
3 the Martian/alien 4 Earth
- 6 Students' own answers

Unit 6

- 1 1 measure 2 states 3 separate 4 matter
- 2 1 e 2 c 3 a 4 b 5 d
- 3 Students' own answers
- 4 1 Water 2 Ice Cream 3 Popcorn 4 Wood
- 5 Suggested answers:
1 Both wood and popcorn change state when heated, but can't change back.
2 Both water and ice cream can turn from a solid into a liquid and back into a solid again.
- 6 Students' own answers

Lesson 1

- 1 2 T 3 F 4 T 5 T 6 F
- 2 Students' own answers
- 3 1 compare 2 liquid 3 volume
- 4 Students' own answers
- 5 1 d 2 a 3 c 4 b
- 6 1 What do you do to the butter? You melt it.
2 How is the cocoa measured? It's measured in teaspoons.

Workbook 5 Answer Key

Lesson 2

- 1 2 solution 3 solubility 4 filtration 5 solute
6 condensation 7 evaporation 8 solvent
- 2 2 solute 3 mixture 4 solubility 5 solvent
6 condensation 7 solution 8 evaporation
- 3 Students' own answers
- 4/5 oil ✗ salt ✓ sand ✗ sugar ✓
- 6 2 A magnet can separate iron from sand.
3 How can you measure the volume of a liquid?
4 You can turn water back into ice, but you can't unpop popcorn.
5 You can compare the mass of two objects with a pan balance.

Lesson 3

- 1 1 substances 2 physical change 3 particles
4 matter 5 chemical change
- 2 2 crushing 3 folding 4 burning 5 melting
6 decaying
- 3 2 physical 3 physical 4 chemical 5 physical
6 chemical
- 4 Suggested answers:
1 broken pencil 2 crumpled newspaper
3 origami / folded paper 4 burning wood
5 ice melting 6 brown banana
- 5 1 Physical 2 Chemical
- 6 If the temperature is below zero, these puddles freeze.
If it isn't wet, it doesn't stick, and it falls apart.
If you leave a banana on a plate for a few days, it starts to turn brown.
If it's out in the open and rain falls on it, the metal parts turn brown and orange.
- 7 Students' own answers

Review 4-6

- 1 1 a 2 c 3 b 4 c 5 b 6 a 7 a 8 b
- 2 1 eclipse 2 land 3 cycle 4 water 5 system
6 ice
- 3 1 flood 2 astronomer 3 comet 4 asteroid
5 gravity

4

N	A	J	T	V	K	T	S	X	D
E	G	S	Y	A	N	T	G	D	R
L	Z	T	H	C	H	J	B	E	J
I	N	N	C	G	D	J	Z	C	L
Q	U	N	U	A	L	R	E	L	A
U	P	O	N	D	K	R	M	I	V
I	R	Z	Q	A	E	U	A	P	A
D	Y	L	R	V	X	F	H	S	N
S	M	M	I	X	T	U	R	E	H
Z	E	R	Z	M	O	C	I	S	H

- 1 lava 2 ash 3 river 4 pond 5 drought
6 eclipse 7 liquid 8 mixture

Unit 7

- 1 a 3 b 1 c 2
- 2 1 thermal energy 2 sound energy 3 light energy
- 3 1 sound 2 thermal 3 light
- 4 Students' own answers
- 5 Students' own answers

Workbook 5 Answer Key

Lesson 1

- 1 d 2 h 3 b 4 c 5 f 7 a 8 g
- 2 frequency 3 amplitude 4 volume 5 vibrations
6 sound waves 7 pitch 8 wavelength
- 2 echo 3 echolocation 4 frequency 5 distances
6 temperature 7 greater 8 vibrations
- 2 outward 3 through 4 toward 5 between
6 during

Lesson 2

- 1 prism 2 rainbow 3 reflection 4 absorption
5 refraction
- 1 b 2 e 3 a 4 c 5 d
- a
- 1 F 2 F 3 F
- 1 couldn't 2 could 3 couldn't 4 could

Lesson 3

- 1 friction 2 radiation 3 conduction
4 convection
- 2 warm 3 touch 4 gases/liquids
5 liquids/gases 6 waves 7 surfaces 8 absorb
- Students' own answers
- Suggested answers:
 - 1 Yes, I have. Heat was transferred from the blanket to my body by conduction.
 - 2 Yes, I have. Heat was transferred from the sun to my body by radiation.
 - 3 Yes, I have. The water got warm because heat was transferred from the hot water to the cold water by convection. The hot water got cooler and the cold water got warmer.
 - 4 Yes, I have. The wheels slipped because there wasn't much friction between the wheels and the grass.
- Students' own questions and answers

Unit 8

- 2 b 3 f 4 g 5 a 6 e 7 d
- Students' own answers
- From left to right: 3, 1, 4, 2

Lesson 1

- 1 electric force 2 static electricity 3 atoms
4 lightning 5 electric charge
- Included in the text: where and when he was born, his inventions, his family, who he worked for
- 1 Serbia
2 a year
3 remote control / the first electric motor / radio
4 it can travel a long way and it's safer
5 He didn't believe that atoms are made of smaller particles.
- 1 move toward 2 sticks, picks up 3 builds up
4 reach for

Lesson 2

- 2 conductor 3 battery 4 electric current
5 series circuit 6 parallel circuit
- 4 doesn't move – moves
5 flows – doesn't flow
6 there's one path – there are two or more paths
- Batteries—Don't forget to recycle them!
- 1 shouldn't 2 can 3 half 4 15% 5 quarter

Workbook 5 Answer Key

Lesson 3

- 1 b 2 c 3 e 4 a 5 d
- 1 phantom energy 2 power source 3 resistor
4 filament 5 device
- c
- 1 e 2 c 3 b 4 a 5 d

Unit 9

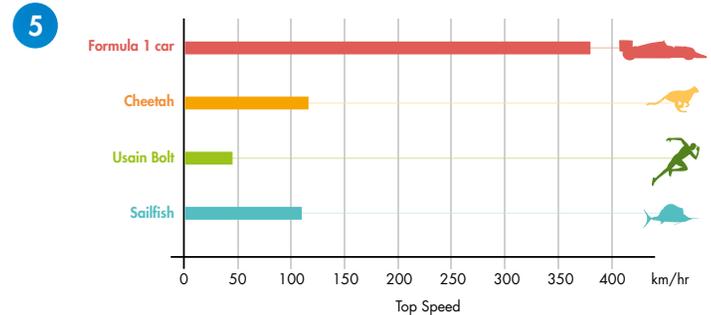
- 2 e 3 d 4 f 5 c 6 a
- a 2 b 1 c 3
- 1 DS 2 F 3 T 4 F 5 T

Lesson 1

- 2 reference point 3 balanced forces
4 relative motion 5 mass 6 motion 7 force
8 weight
- 1 b 2 a 3 b 4 c 5 a
- 1 Prediction 2 Preparing for the Experiment
3 Doing the Experiment 4 Conclusions
- 1 The student thought that heavier objects would fall faster.
2 They dropped the balls from the window.
3 No, it wasn't. (Galileo's theory is right.)
- 1 c 2 a
- Students' own answers

Lesson 2

- 1 average speed 2 speed 3 acceleration
4 direction 5 velocity
- a 4 b 2 c 1 d 5 e 3
- Students' own answers
- The Formula 1 car is the fastest.



- Students' own answers
- Students' own answers
- 1 64 2 16
- Students' own answers

Review 7-9

- 1 b 2 c 3 c 4 a 5 b 6 b 7 a
- 1 socket 2 lightning 3 balanced forces
4 filament 5 battery 6 sound waves
- 1 direction 2 vibrations 3 absorption
4 reflection 5 resistor 6 insulator
7 acceleration 8 conduction

Workbook 5 Answer Key

Reading Skills

Unit 1

b

Unit 2

a

Unit 3

b

Unit 4

a volcanic eruption

Unit 5

c

Unit 6

b

Unit 7

pleased, interested, well

b

Unit 8

Students' own answers

Unit 9

You use the relative motion of the objects to decide what is moving and what is not moving.

Writing Skills

Unit 1

1 worked 2 noticed 3 were 4 looked 5 had
6 differed 7 didn't know 8 became

Unit 2

Students' own answers

Unit 3

Students' own answers

Unit 4

Students' own answers

Unit 5

- 1 Each time the moon completes a turn on its axis, it also travels once around Earth.
- 2 The sun's gravity pulls planets toward it.

Unit 6

Students' own answers

Unit 7

Students' own answers

Unit 8

1 pick up 2 build up

Unit 9

Students' own answers