STEAM READING HIGH ELEMENTARY 3 ANSWER KEY Student Book

Unit 1. Muscles Move Our Bodies

Warm-up

The muscles in my hand make it move.

Key Words

B.

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

Reading

C.

1. b
2. c

Check Your Understanding

A.

1. b
2. a
3. c

B.

1. F; Bones are surrounded by muscles.
2. T

C.

1. connected
2. flex
3. Bones
4. longer
5. muscles

D.

1. lungs
2. stretched
3. locomotive
4. extended
5. muscles
6. surrounded

Steam Project

Unit 2. Amazing Bones

Warm-up

Yes, I have. I broke the radius bone in my arm.

Key Words

B.

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

Reading

C.

1. b
2. a

Check Your Understanding

A.

1. a
2. b
3. c

B.

1. F; Bones protect internal organs, and they all look different.
2. F; We have over 200 bones in our bodies.

C.

1. skull, b
2. ribs, c
3. spine, a

D.

1. orthopedic
2. x-ray
3. bamboo
4. recommend
5. skull
6. calcium

Steam Project

This is how your muscles and **bones** in your hand work. There are three bones in each finger, and two in your thumb. They're **connected** by long, thin tendons that run into your arm. When you squeeze your hand, the muscles and tendons in your arm and hand pull and close your hand into a ball. Other muscles **contract** to open your hand again.

Unit 3. Light Energy

Warm-up

Yes, I have a calculator that is powered by sunlight.

Key Words

B.

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

Reading

C.

1. c
2. a

Check Your Understanding

A.

1. a
2. c
3. b

B.

1. F; Solar batteries convert light energy into electric energy.
2. T

C.

1. Sunlight
2. solar
3. light
4. electric
5. kinetic
6. propeller

D.

1. convert
2. tear
3. blade
4. motor
5. kinetic
6. propeller

Steam Project

1. heated, thermal
2. high, potential
3. loud, sonic

Unit 4. Roller Coaster Cars

Warm-up

Bicycles, sailboats, and roller coasters can move without motors.

Key Words

B.

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

Reading

C.

1. c
2. b

Check Your Understanding

A.

1. a
2. a
3. b

B.

1. F; Roller coaster cars create potential energy as they go up the hill.
2. T

C.

1. P
2. K
3. P
4. P
5. P
6. K

D.

1. merry-go-round
2. scream
3. ride
4. track
5. amusement park
6. all the time

Steam Project

1. battery
2. mechanical
3. energy
4. heat
5. potential

Unit 5. Our Hearts Pump Blood

Warm-up

My heart beats 65 times in a minute.

Key Words

B.

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

Reading

C.

1. b
2. a

Check Your Understanding

A.

1. b
2. b
3. b

B.

1. F; The intestines turn the food we eat into nutrients.
2. F; A healthy heart moves faster than an unhealthy heart.

C.

1. stomach
2. extract
3. nutrients
4. vessels

D.

1. stomach
2. Oxygen
3. circulatory
4. extracted
5. beats
6. pump

Steam Project

1. flow
2. pumping
3. valves
4. closing

Unit 6. Blood Moves All Around

Warm-up

Yes, I have. I stopped the bleeding by putting pressure on the cut.

Key Words

B.

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

Reading

C.

1. a
2. c

Check Your Understanding

A.

1. a
2. b
3. b

B.

1. F; There is blood everywhere in your body.
2. T

C.

1. lungs, a
2. veins, b
3. capillaries, e
4. arteries, c
5. heart, d

D.

1. bandages
2. contains
3. powerful
4. Arteries
5. capillary
6. wound

Steam Project

1. stroke, blood clot
2. artery
3. heart attack

Unit 7. Making Magnetic Fields

Warm-up

Compasses usually point north.

Key Words

B.

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

Reading

C.

1. b
2. a

Check Your Understanding

A.

1. c
2. c
3. b

B.

1. T
2. F; We can use electricity to create magnetism.

C.

1. compass
2. switch
3. points
4. magnetism

D.

1. giant
2. needle
3. anymore
4. compass
5. magnetism
6. take a look

Steam Project

Unit 8. Earth Is a Magnet

Warm-up

I used a magnet on my pencil case today.

Key Words

B.

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

Reading

C.

1. c
2. c

Check Your Understanding

A.

1. b
2. b
3. c

B.

1. F; The south pole of a magnet always points to the north pole of Earth.
2. F; Bella followed the compass north back to her campsite.

C.

1. repel
2. repel
3. attract
4. repel
5. attract
6. repel

D.

1. explorer
2. attract
3. guess
4. repel
5. squirrel
6. campsite

Steam Project

1. F
2. T
3. F
4. F
5. T

Unit 9. Bacteria vs. Fungi

Warm-up

The fruit begins to rot and turn brown.

Key Words

B.

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

Reading

C.

1. a
2. b

Check Your Understanding

A.

1. c
2. b
3. b

B.

1. T
2. F; Bacteria are tiny, so we need to use a microscope to see them. / Fungi grow large enough to see with our bare eyes.

C.

1. Fungi
2. Bacteria
3. Bacteria
4. Fungi
5. Bacteria
6. Fungi

D.

1. fermentation
2. moldy
3. bare
4. properly
5. produce
6. bacteria

Steam Project

1. Yeast
2. fermented
3. balloons
4. gases
5. sugar

Unit 10. Strange Smells

Warm-up

Yes, I do. My feet get sweaty which helps bacteria grow between my toes and makes them stink.

Key Words

B.

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

Reading

C.

1. c
2. a

Check Your Understanding

A.

1. a
2. c
3. b

B.

1. F; Bacteria and mold both cause fermentation.
2. T

C.

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

D.

1. scary
2. strengthen
3. paste
4. exist
5. embarrassed
6. smell

Steam Project

Step 1

Slowest→Quickest

toast→bread→baked beans→tomato

Step 2

1. tomatoes
2. moisture
3. quickly
4. bread
5. growing

Unit 11. 62 Degrees in the Morning?

Warm-up

It is 24 degrees Celsius today. It is warm, but not hot.

Key Words

B.

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

Reading

C.

1. b
2. a

Check Your Understanding

A.

1. a
2. c
3. b

B.

1. F; Fahrenheit can be used to measure hot and cold temperatures.
2. T

C.

1. 59°F
2. 20°C
3. 95°F
4. 14°F
5. -30°C

D.

1. conditions
2. described
3. charts
4. formula
5. multiply
6. Fahrenheit

Steam Project

a freezer: -18°C → 0.4°F
a fridge: 40°F → 4.4°C
tap water: 68°F → 20°C
human body: 37°C → 98.6°F
boiling water: 100°C → 212°F
an oven: 400°F → 204.4°C

Unit 12. Different Temperatures

Warm-up

Last weekend, the temperature was 18°C, and it was 65°F.

Key Words

B.

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

Reading

C.

1. a
2. b

Check Your Understanding

A.

1. c
2. b
3. a

B.

1. T
2. F; Except for the U.S. and a few other countries, most places in the world use Celsius.

C.

1. 1742
2. 0
3. 212
4. the U.S.
5. most countries

D.

1. go on a trip
2. watch
3. propose
4. accommodations
5. except
6. unit

Steam Project

Step 1

1. -63°C
2. -76°F
3. -1.1°C
4. 95°F
5. 179.4°C
6. 698°F
7. 1,371.1°C
8. 10,292°F

Step 2

1. temperature
2. Fahrenheit
3. Celsius
4. units
5. degrees
6. measure
7. scientists

Unit 13. The Wonder of Rainbows

Warm-up

Rainbows are created when sunlight shines on water droplets in the air.

Key Words

B.

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

Reading

C.

1. a
2. b

Check Your Understanding

A.

1. c
2. b
3. b

B.

1. F; In nature, we see rainbows when the sun shines after rain.
2. F; Rainbows are made by sunlight hitting water droplets in the air.

C.

1. Changes the speed of light
2. surface of water
3. binoculars
4. enters and exits a raindrop

D.

1. rainbow
2. came back
3. over
4. control
5. wall
6. far away

Steam Project

Remember Our Yogurt Getting Brown In Vinegar

Unit 14. All the Colors of the Rainbow

Warm-up

I saw a rainbow yesterday after a rainstorm passed my house.

Key Words

B.

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

Reading

C.

1. a
2. b

Check Your Understanding

A.

1. c
2. c
3. a

B.

1. F; Rainbows happen because of light refraction and reflection.
2. F; Light is reflected as it hits the back of a raindrop. / Light is refracted as it enters a raindrop.

C.

3, 6, 5
2, 1, 4

D.

1. order
2. wavelength
3. exit
4. come out
5. raindrop
6. shower

Steam Project

Step 1

Refraction: glasses, contact lenses

Both: microscope, telescope, digital camera, convex mirror

Reflection: high-visibility jacket, hand mirror

Step 2

1. Refraction
2. focus
3. Reflection
4. light
5. mirror
6. lenses

Unit 15. Creating Organs and Limbs

Warm-up

I know of artificial hearts, arms, and legs.

Key Words

B.

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

Reading

C.

1. a
2. b

Check Your Understanding

A.

1. a
2. b
3. a

B.

1. F; Artificial organ producers design artificial organs by looking at real ones.
2. T

C.

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

D.

1. over and over
2. accident
3. damaged
4. consist
5. limb
6. copy

Unit 16. Online Doctors

Warm-up

I went to see the doctor two weeks ago. My friend threw a stick, and it hit me in the eye.

Key Words

B.

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

Reading

C.

1. a
2. c

Check Your Understanding

A.

1. b
2. c
3. b

B.

1. F; Telemedicine allows people to speak to doctors online.
2. T

C.

1. Telemedicine
2. medical records
3. miss
4. Disabled
5. countryside
6. (many) lives easier

D.

1. telemedicine
2. face-to-face
3. prescribe
4. without
5. medical
6. allow

Steam Project

Step 1

1. broken bone
2. poor eyesight
3. muscle strain
4. athlete's foot
5. heart failure

Step 2

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

Workbook

Unit 1. Muscles Move Our Bodies

Vocabulary Practice

A.

1. Justin needs to work out more to make his **muscles** stronger.
2. Make sure to **stretch** before you start exercising.
3. Smoking is bad for your **lungs**.
4. Trees **surround** the house.

B.

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

Comprehension Practice

1. c
2. b
3. b

Summary

1. muscles
2. write
3. locomotive
4. structure
5. surrounded
6. extend
7. bones

Unit 2. Amazing Bones

Vocabulary Practice

A.

1. skull
2. bamboo
3. calcium
4. ribs

B.

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

Comprehension Practice

1. a
2. a
3. b

Summary

1. hurt
2. bones
3. substances
4. move
5. organs
6. orthopedic
7. calcium

Unit 3. Light Energy

Vocabulary Practice

A.

1. Earth spins on a tilted **axis**.
2. Kara's mom works in a lab and experiments with **chemical** reactions.
3. Old planes had **propellers** that moved them through the air.
4. **Tear** the lettuce into the small pieces and add to the salad.

B.

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

Comprehension Practice

1. c
2. b
3. b

Summary

1. convert
2. chemical
3. solar
4. powered
5. motor
6. kinetic
7. energy

Unit 4. Roller Coaster Cars

Vocabulary Practice

A.

1. merry-go-round
2. screams
3. all the time
4. potential

B.

1. b
2. c
3. b
4. c

Comprehension Practice

1. a
2. b
3. b

Summary

1. amusement
2. screams
3. roller coaster
4. around
5. pulls
6. becomes
7. kinetic

Unit 5. Our Hearts Pump Blood

Vocabulary Practice

A.

1. Trees not only look pretty but produce **oxygen** that we need to live.
2. The blood **vessels** show through the skin.
3. Kate hugged her cat and felt its heart **beat**.
4. Fiona held her **stomach** in hunger. Where was her delivery food?

B.

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

Comprehension Practice

1. a
2. b
3. b

Summary

1. breathe
2. intestines
3. throughout
4. vessels
5. pump
6. moves
7. flowing

Unit 6. Blood Moves All Around

Vocabulary Practice

A.

1. bandage
2. arteries
3. treated
4. powerful

B.

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

Comprehension Practice

1. c
2. c
3. a

Summary

1. cuts
2. bleeding
3. treats
4. powerful
5. moves
6. bring
7. capillaries

Unit 7. Making Magnetic Fields

Vocabulary Practice

A.

1. Matt asked Jenny to **take a look** at a funny video on his phone.
2. It's important to take a map and a **compass** when going hiking.
3. The batteries didn't go in until Sammy turned them **the other way around**.
4. For her birthday, Mia went to a restaurant and ordered a **giant** pizza.

B.

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

Comprehension Practice

1. c
2. c
3. b

Summary

1. magnets
2. circuit
3. needle
4. magnetic field
5. magnetism
6. flow
7. direction

Unit 8. Earth Is a Magnet

Vocabulary Practice

A.

1. enormous
2. explorer
3. realized
4. attract

B.

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

Comprehension Practice

1. a
2. a
3. b

Summary

1. followed
2. realized
3. north
4. campsite
5. magnet
6. south
7. pole

Unit 9. Bacteria vs. Fungi

Vocabulary Practice

A.

1. Always make sure to put sunscreen on your **bare** arms when in the sun.
2. Philip was shocked to see that his new apartment was **moldy**.
3. The **lactic acid** in yogurt is good for your digestive system.
4. The family's new chicken **produces** a few eggs every week.

B.

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

Comprehension Practice

1. c
2. b
3. b

Summary

1. lactic acid
2. Mold
3. fermentation
4. bare
5. humid
6. nutrients
7. produce

Unit 10. Strange Smells

Vocabulary Practice

A.

1. paste
2. scary
3. smell
4. illness

B.

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

Comprehension Practice

1. b
2. b
3. c

Summary

1. bacteria
2. smell
3. fungi
4. illnesses
5. rotten
6. soybean
7. realizes

Unit 11. 62 Degrees in the Morning?

Vocabulary Practice

A.

1. There was a long line outside the store for the **latest** video game console.
2. The roof was in bad **condition** after the storm.
3. Jessie excitedly **described** to her mom what she did at school.
4. It's a good idea to look at a weather **chart** while planning what to do on vacation.

B.

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

Comprehension Practice

1. a
2. a
3. a

Summary

1. conditions
2. degrees
3. temperatures
4. Fahrenheit
5. formula
6. multiply
7. Celsius

Unit 12. Different Temperatures

Vocabulary Practice

A.

1. watched
2. go on a trip
3. accommodations
4. except

B.

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

Comprehension Practice

1. c
2. b
3. a

Summary

1. goes on a trip
2. forecast
3. degrees
4. measures
5. freezing point
6. boiling point
7. world

Unit 13. The Wonder of Rainbows

Vocabulary Practice

A.

1. Marcus **split** wood for the fire at their winter accommodations.
2. Put a few **droplets** of food coloring in the water to turn it blue.
3. Someone drove a car into the **wall** and left a big hole.
4. Matthew fought with his brother over who would **control** the tablet.

B.

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

Comprehension Practice

1. c
2. a
3. a

Summary

1. refraction
2. Reflection
3. shone
4. direction
5. white
6. rainbows
7. droplets

Unit 14. All the Colors of the Rainbow

Vocabulary Practice

A.

1. shower
2. ordered
3. end
4. came out

B.

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

Comprehension Practice

1. c
2. c
3. b

Summary

1. shower
2. order
3. appears
4. explains
5. shines
6. refracted
7. reflected

Unit 15. Creating Organs and Limbs

Vocabulary Practice

A.

1. She was injured in a road **accident**.
2. He tried to **replace** the broken plate before his mom found out.
3. Larry tends to **copy** his brother in the way he dresses.
4. Brian practiced **over and over** before the big basketball game.

B.

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

Comprehension Practice

1. b
2. a
3. a

Summary

1. organs
2. hearing
3. artificial
4. damaged
5. copy
6. expensive
7. producers

Unit 16. Online Doctors

Vocabulary Practice

A.

1. prefer
2. allow
3. disabled
4. face-to-face

B.

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

Comprehension Practice

1. c
2. a
3. a

Summary

1. feel sick
2. telemedicine
3. doctor
4. medical
5. face-to-face
6. disabled
7. country