

STEAM READING BEGINNER 1 ANSWER KEY Student Book

Unit 1. What's in a Baseball?

Warm-Up

metal, cement, concrete, fabric, leather, wood, brick, paper

Key Words

B. Listen and number the words.

- 2.
- 5.
- 1.
- 6.
- 3.
- 4.

D. Read and choose.

1. wood
2. string

Check Your Understanding

A. Choose the correct answers.

1. c
2. b
3. b

B. Look, read, and check.

1. a
2. a

C. Number the pictures in the correct order.

- 2, 3, 4, 1

D. Look, match, and write.

1. wood
2. metal
3. string
4. leather
5. rubber
6. cork

Steam Project

Sample answer:

The best material to make a cup is: plastic.
Because it is strong, light, and waterproof.

Unit 2. Bo's House**Warm-Up**

I want to live in a big apartment with a big kitchen.

Key Words**B. Listen and number the words.**

- 1.
- 5.
- 6.
- 2.
- 3.
- 4.

D. Read and choose.

1. armor
2. weather

Check Your Understanding**A. Choose the correct answers.**

1. a
2. a
3. c

B. Look, read, and check.

1. a
2. a

C. Complete the chart.

Paper house: light
folds easily
Metal house: gets too hot
Brick house: strong

D. Unscramble and write.

1. light
2. fold
3. armor
4. weather
5. brick
6. safe

Steam Project

1st pencil case: wood / strong

2nd pencil case: fabric / foldable

3rd pencil case: plastic / foldable, waterproof, colorful, strong

Unit 3. Solid Shapes**Warm-Up**

I can see circles and squares.

Key Words**B. Listen and number the words.**

- 2.
- 3.
- 5.
- 6.
- 4.
- 1.

D. Read and choose.

1. square
2. volume

Check Your Understanding**A. Choose the correct answers.**

1. c
2. c
3. c

B. Look, read, and check.

1. a
2. b

C. Complete the chart.

Solid things have their own shape and volume.

Solid things: Metal, Plastic, Wood

D. Choose the correct word.

1. flat
2. round
3. long
4. volume
5. square
6. shape

Steam Project**Step 1**

wood
metal
thread
brick
paper
cork
rubber
water
iron
air

Step 2

Solid: wood, metal, thread, brick, paper, cork,
rubber, iron

Unit 4. Solid or Liquid?**Warm-Up**

I can see a desk, a chair, a table, and a pencil.

Key Words**B. Listen and number the words.**

- 2.
- 1.
- 6.
- 3.
- 5.
- 4.

D. Read and choose.

1. rectangle
2. liquid

Check Your Understanding**A. Choose the correct answers.**

1. c
2. a
3. a

B. Look, read, and check.

1. a
2. a

C. Complete the chart.

Solids don't change shape or volume.

Sand changes shape, but it doesn't change volume. A grain of sand doesn't change shape.

Liquids change shape, but they don't change volume.

D. Unscramble and write.

1. box
2. rectangle
3. grain
4. solid
5. sand
6. liquid

Steam Project

Step 2: 141

Unit 5. Dancing Sounds**Warm-Up**

I think we can feel sound, but I don't think we can see it.

Key Words**B. Listen and number the words.**

- 2.
- 6.
- 1.
- 3.
- 4.
- 5.

D. Read and choose.

1. wave
2. sprinkles

Check Your Understanding**A. Choose the correct answers.**

1. a
2. b
3. c

B. Look, read, and check.

1. a
2. a

C. Number the pictures in the correct order.

- 2, 1, 4, 3

D. Look, match, and write.

1. speaker
2. volume
3. vibration
4. sprinkles
5. zipper bag
6. wave

Steam Project**Step 2**

1. loud music? The tissue paper moves a lot.
2. soft music? The tissue paper moves a little.

I think this happens because of the sound vibrations created by the music. Loud music has stronger vibrations.

Unit 6. Buzzing Bees**Warm-Up**

I think bees buzz by flapping their wings really fast.

Key Words**B. Listen and number the words.**

- 2.
- 6.
- 5.
- 3.
- 1.
- 4.

D. Read and choose.

1. bee
2. buzz

Check Your Understanding**A. Choose the correct answers.**

1. b
2. c
3. a

B. Look, read, and check.

1. a
2. a

C. Complete the chart.

Cause: A bee moves its wings very fast.

Effect: The air vibrates.

Cause: The air shakes your eardrum.

Effect: You hear a buzzing sound.

D. Circle the correct word.

1. wings
2. bees
3. fast
4. arm
5. fly
6. buzzed

Steam Project

3, 2, 4, 5, 1

1. The girl speaks into the cup.
2. The girl's voice vibrates the air inside the cup.
3. The bottom of the cup passes the sound waves to the string.
4. The sound wave passes to the boy's cup by the string.
5. The boy can hear the girl's voice.

Unit 7. Juicy Cups**Warm-Up**

Juice, oil, water, gasoline, milk, soda

Key Words**B. Listen and number the words.**

- 2.
- 1.
- 6.
- 5.
- 3.
- 4.

D. Read and choose.

1. juice
2. bottle

Check Your Understanding**A. Choose the correct answers.**

1. c
2. b
3. b

B. Look, read, and check.

1. a
2. b

C. Number the pictures in the correct order.

- 4, 1, 3, 2

D. Unscramble and write.

1. see-through
2. mark
3. height
4. juice
5. bottle
6. pour

Steam Project

Step 1: shoes, ball, bag
solids

Step 2: milk

What do we call it? liquid

Who gets it? Mary

Unit 8. Shopping for Milk**Warm-Up**

I like to drink water, juice, and milk.

Key Words**B. Listen and number the words.**

2.

5.

3.

1.

4.

6.

D. Read and choose.

1. milk

2. cow

Check Your Understanding**A. Choose the correct answers.**

1. c

2. c

3. b

B. Look, read, and check.

1. a

2. a

C. Complete the chart.

Paper carton - shape: square. It has a cute
cow on it.

Both cartons have the same amount of milk.

Plastic bottle - shape: round

D. Look, match, and write.

1. milk

2. cow

3. cute

4. go shopping

5. carton

6. amount

Steam Project**Step 2**

The wool yarn absorbs the water from the bowl on top of the box. The water flows down the wool yarn to the bowl at the bottom of the box.

The dirt is in the bowl on top of the box.

Unit 9. Having Fun with Magnets**Warm-Up**

The magnet pulls the pin to it.

Key Words**B. Listen and number the words.**

- 6.
- 2.
- 3.
- 1.
- 4.
- 5.

D. Read and choose.

1. chopstick
2. paper clip

Check Your Understanding**A. Choose the correct answers.**

1. a
2. c
3. c

B. Look, read, and check.

1. b
2. b

C. Complete the chart.

Cause: A magnet has a magnetic field.

Effect: Metals stick to it.

Cause: The magnet only attracts metal.

Effect: It doesn't attract plastic, wood, rubber,
or glass.

D. Look, match, and write.

1. pin
2. magnet
3. chopstick
4. button
5. stick
6. paper clip

Steam Project**Step 2**

The picture of the scooter moved wherever the magnet moved.

The paper clip stuck to the magnet, which caused the magnet to pull the picture of the scooter across the background picture.

Unit 10. My Favorite Hairpin**Warm-Up**

You can use a magnet to find a metal object at the beach.

Key Words**B. Listen and number the words.**

- 6.
- 2.
- 3.
- 1.
- 4.
- 5.

D. Read and choose.

1. hairpin
2. find

Check Your Understanding**A. Choose the correct answers.**

1. c
2. c
3. c

B. Look, read, and check.

1. a
2. a

C. Number the pictures in the correct order.

- 2, 4, 1, 3

D. Unscramble and write.

1. find
2. favorite
3. hairpin
4. beach
5. wrong
6. have fun

Steam Project

I can't make the car move because the paper car does not contain metal.

If the magnet is fairly close to the paper, the paper clip still moves because the magnetic field attracts the paper clip.

Unit 11. Making Scales**Warm-Up**

The book and the water bottle I chose do not weigh the same. The water bottle is heavier.

Key Words**B. Listen and number the words.**

- 2.
- 6.
- 3.
- 1.
- 4.
- 5.

D. Read and choose.

1. pants hanger
2. weigh

Check Your Understanding**A. Choose the correct answers.**

1. c
2. b
3. b

B. Look, read, and check.

1. a
2. b

C. Fill in the blanks.

The weight of an object is the force that gravity uses to pull its mass to Earth. The mass of an object is how much stuff is inside it.

weight = mass X gravity

D. Look, match, and write.

1. pants hanger
2. choose
3. scale
4. both
5. heavy
6. weigh

Steam Project

Problem 1: She will need to put seven more marbles in the cup with only five marbles.

Problem 2: The pencil weighs three marbles.

Unit 12. Different Kinds of Scales**Warm-Up**

No, they are not the same. The scales in the kitchen are smaller. They cannot weigh things that are really heavy like the bathroom scale can.

Key Words**B. Listen and number the words.**

- 2.
- 1.
- 3.
- 6.
- 4.
- 5.

D. Read and choose.

1. flour
2. kitchen

Check Your Understanding**A. Choose the correct answers.**

1. a
2. b
3. c

B. Look, read, and check.

1. b
2. b

C. Complete the chart.

We use different scales to weigh different things.

Kinds of Scales: kitchen scale
bathroom scale
hospital scale

D. Unscramble and write.

1. kitchen
2. flour
3. hospital
4. cake
5. check
6. bathroom

Steam Project

Step 2: The other balloon goes down. This is because it is full of air. So air has weight.

Unit 13. Fruit Boats**Warm-Up**

I think tomatoes sink in water.

Key Words**B. Listen and number the words.**

- 6.
- 2.
- 3.
- 4.
- 1.
- 5.

D. Read and choose.

1. sail
2. sink

Check Your Understanding**A. Choose the correct answers.**

1. b
2. c
3. b

B. Look, read, and check.

1. a
2. b

C. Number the pictures in the correct order.

- 4, 1, 2, 3

D. Look, match, and write.

1. sink
2. float
3. sail
4. boat
5. density
6. half

Steam Project

Sink: cherry, kiwi, chalk, rubber, cola

Float: paper, rice, butter

Unit 14. The Farmer's Secret**Warm-Up**

Farmers need to think about the weather, water, food for animals, crops, their animals' health, equipment, etc.

Key Words**B. Listen and number the words.**

- 2.
- 3.
- 1.
- 4.
- 6.
- 5.

D. Read and choose.

1. secret
2. rice

Check Your Understanding**A. Choose the correct answers.**

1. b
2. a
3. c

B. Look, read, and check.

1. a
2. a

C. Fill in the blanks.

Density is the measure of a unit's mass to its volume.

density = mass / volume

low density (box that is high)

high density (box that is low)

D. Unscramble and write.

1. rice
2. seed
3. empty
4. secret
5. grow
6. salt

Steam Project

Step 1: gold, silver, steel, water, ice, milk
Gold, silver, and steel sink because they have higher density than water.

Milk and ice float.

Because they have lower density than water.

Step 2: In an oil spill in the ocean, the oil rises to the top because it is less dense than water, creating an oil slick on the surface of the ocean.

A Styrofoam cup is less dense than a ceramic cup, so the Styrofoam cup will float in water and the ceramic cup will sink.

Unit 15. Cars of the Future**Warm-Up**

convertible, sedan, sports car, hatchback, SUV, minivan

Key Words**B. Listen and number the words.**

- 2.
- 1.
- 3.
- 6.
- 4.
- 5.

D. Read and choose.

1. gasoline
2. battery

Check Your Understanding**A. Choose the correct answers.**

1. c
2. c
3. b

B. Look, read, and check.

1. a
2. b

C. Complete the chart.

Main Idea: Electric cars are good for Earth.

Details: They are clean.

They are quiet.

D. Circle the correct word.

1. engine
2. battery
3. clean
4. burn
5. gasoline
6. quiet

Steam Project**Step 2**

My car of the future doesn't have wheels. It can fly, but it doesn't have wings!

Unit 16. Recording Sounds**Warm-Up**

I think music sounds clearer when I put my headphones on.

Key Words**B. Listen and number the words.**

- 2.
- 5.
- 3.
- 6.
- 1.
- 4.

D. Read and choose.

1. music
2. change

Check Your Understanding**A. Choose the correct answers.**

1. a
2. b
3. b

B. Look, read, and check.

1. a
2. b

C. Complete the chart.

Main Idea: Sound engineers record music.

They use a microphone.

Their machine changes the music they record.

D. Look, match, and write.

1. microphone
2. music
3. clear
4. loud
5. headphones
6. change

Steam Project**Step 2**

When I hit the bowls one after the other, I always get a different sound. The bowl with the lowest level of water makes a low sound. The bowl with the highest level of water makes a high sound.

STEAM READING 1 ANSWER KEY**Workbook****Unit 1. What's in a Baseball?****Vocabulary Practice****A. Write the letters for each word.**

1. wood
2. leather
3. string
4. metal
5. rubber
6. cork

B. Look at the pictures and complete the sentences.

1. wood
2. cork
3. rubber
4. string

Sentence Practice

1. Baseball bats are made of metal or wood.
2. Use a cork for the center of the baseball.
3. Wrap the red rubber with different kinds of string.
4. Sew the leather with red thread.
5. Each material has a different use.

Summary

1. ball
2. metal
3. materials
4. rubber
5. thread

Unit 2. Bo's House**Vocabulary Practice****A. Find, circle, and write the words.**

1. light
2. weather
3. fold
4. safe
5. armor
6. brick

B. Look at the pictures and complete the sentences.

1. brick
2. armor
3. weather
4. light

Sentence Practice

1. Three brothers build houses.
2. The wind blows the paper house away!
3. Bobby builds a metal house.
4. The metal house gets too hot!
5. It is safe in any weather.

Summary

1. houses
2. light
3. brick
4. safe
5. weather

Unit 3. Solid Shapes**Vocabulary Practice****A. Write the letters for each word.**

1. long
2. flat
3. square
4. shape
5. volume
6. round

B. Look at the pictures and complete the sentences.

1. long
2. shape
3. round
4. flat

Sentence Practice

1. Take a long wooden stick and some bowls.
2. Put the wooden stick in the bowls.
3. The wooden stick stays the same.
4. Solid things have their own shape.
5. They can be many different shapes.

Summary

1. long
2. round (or square)
3. square (or round)
4. shape
5. volume

Unit 4. Solid or Liquid?**Vocabulary Practice****A. Find, circle, and write the words.**

1. box
2. rectangle
3. grain
4. solid
5. liquid
6. sand

B. Look at the pictures and complete the sentences.

1. liquid
2. rectangle
3. box
4. Sand

Sentence Practice

1. Is sand a liquid?
2. It's round like a bowl.
3. This box is a rectangle.
4. Sand changes shape like a liquid.
5. Solid things don't change shape or volume.

Summary

1. box
2. rectangle
3. sand
4. liquid
5. grains

Unit 5. Dancing Sounds**Vocabulary Practice****A. Write the letters for each word.**

1. volume
2. sprinkles
3. zipper bag
4. speaker
5. wave
6. vibration

B. Look at the pictures and complete the sentences.

1. volume
2. sprinkles
3. zipper bag
4. speaker

Sentence Practice

1. You can hear sounds with your ears.
2. Turn on a speaker and place it in a bowl.
3. Put a plastic wrap across the top of the bowl.
4. Place the bag on top of the bowl.
5. We call them sound waves.

Summary

1. sprinkles
2. zipper bag
3. volume
4. vibrations
5. waves

Unit 6. Buzzing Bees**Vocabulary Practice****A. Write the letters for each word.**

1. wing
2. arm
3. bee
4. fly
5. fast
6. buzz

B. Look at the pictures and complete the sentences.

1. arm
2. fast
3. bee
4. fly

Sentence Practice

1. Sarah sees a bee at the park.
2. The air shakes your eardrum.
3. A bee moves its wings very fast.
4. Can I make a sound by moving my arms?
5. You have to move your arms very fast!

Summary

1. bee
2. wings
3. flies
4. fast
5. arms

Unit 7. Juicy Cups**Vocabulary Practice****A. Find, circle, and write the words.**

1. mark
2. pour
3. see-through
4. juice
5. bottle
6. height

B. Look at the pictures and complete the sentences.

1. bottle
2. see-through
3. pour
4. juice

Sentence Practice

1. Take a bottle of orange juice.
2. Mark where the juice is with a pen.
3. Pour the juice into different cups.
4. Do you see any changes?
5. The shape changes with each cup.

Summary

1. pour
2. see-through
3. mark
4. height
5. juice

Unit 8. Shopping for Milk**Vocabulary Practice****A. Find, circle, and write the words.**

1. amount
2. carton
3. milk
4. cow
5. cute
6. go shopping

B. Look at the pictures and complete the sentences.

1. go shopping
2. milk
3. cute
4. cow

Sentence Practice

1. Only the shape is different.
2. Liquids like milk change their shape.
3. Which one has more milk in it?
4. Let's buy this paper one.
5. It has a cute cow on it!

Summary

1. go shopping
2. milk
3. carton
4. amount
5. cute

Unit 9. Having Fun with Magnets**Vocabulary Practice****A. Write the letters for each word.**

1. magnet
2. chopstick
3. stick
4. button
5. paper clip
6. pin

B. Look at the pictures and complete the sentences.

1. chopstick
2. stick
3. buttons
4. magnet

Sentence Practice

1. Put the magnet next to a plastic button.
2. Which things stick to the magnet?
3. Metal things stick to the magnet.
4. Take things made from plastic.
5. The paper clip and the pin are made of metal.

Summary

1. chopstick
2. stick
3. magnet
4. paper clip
5. Metal

Unit 10. My Favorite Hairpin**Vocabulary Practice****A. Write the letters for each word.**

1. wrong
2. have fun
3. hairpin
4. find
5. beach
6. favorite

B. Look at the pictures and complete the sentences.

1. wrong
2. hairpin
3. find
4. beach

Sentence Practice

1. Sarah wasn't having fun, though.
2. I dropped my favorite hairpin!
3. How can you find it with that?
4. It will stick to a magnet.
5. I want a magnet, too.

Summary

1. beach
2. have fun
3. hairpin
4. magnet
5. find

Unit 11. Making Scales**Vocabulary Practice****A. Find, circle, and write the words.**

1. scale
2. both
3. heavy
4. pants hanger
5. weight
6. choose

B. Look at the pictures and complete the sentences.

1. choose
2. Both
3. heavy
4. scale

Sentence Practice

1. Do you need to weigh something?
2. How can you weigh it?
3. You can make a scale at home.
4. Put it in one zipper bag.
5. What else can you weigh with your new scale?

Summary

1. scale
2. hanger
3. weigh
4. paper clips
5. heavy

Unit 12. Different Kinds of Scales**Vocabulary Practice****A. Write the letters for each word.**

1. cake
2. check
3. bathroom
4. flour
5. hospital
6. kitchen

B. Look at the pictures and complete the sentences.

1. cake
2. kitchen
3. hospital
4. flour

Sentence Practice

1. Susie's mom puts flour on a scale.
2. Why are you doing that?
3. Susie used a scale last week.
4. A scale tells us how heavy something is.
5. There are scales in the kitchen.

Summary

1. cake
2. weigh
3. kitchen
4. bathroom
5. check

Unit 13. Fruit Boats**Vocabulary Practice****A. Write the letters for each word.**

1. boat
2. sink
3. float
4. density
5. sail
6. half

B. Look at the pictures and complete the sentences.

1. boat
2. float
3. half
4. sail

Sentence Practice

1. Mary and Fraser are going to make boats.
2. Which fruit can you make into a boat?
3. Cut the fruit in half.
4. Put the boat in a large bowl of water.
5. They have lower density than water.

Summary

1. boats
2. fruits
3. sink
4. density
5. water

Unit 14. The Farmer's Secret**Vocabulary Practice****A. Find, circle, and write the words.**

1. empty
2. grow
3. rice
4. secret
5. salt
6. seed

B. Look at the pictures and complete the sentences.

1. grow
2. empty
3. salt
4. rice

Sentence Practice

1. Brian grows a lot of rice.
2. How do you grow so much?
3. Put rice seeds in salt water.
4. Bad seeds are empty.
5. I only use good seeds.

Summary

1. grows
2. secret
3. density
4. rice
5. salt

Unit 15. Cars of the Future**Vocabulary Practice****A. Write the letters for each word.**

1. battery
2. gasoline
3. engine
4. burn
5. quiet
6. clean

B. Look at the pictures and complete the sentences.

1. quiet
2. clean
3. gasoline
4. battery

Sentence Practice

1. Electric cars use a battery.
2. Because of this, they are good for Earth.
3. Who makes electric cars?
4. Electric car engineers make electric cars cleaner.
5. You can be an electric car engineer.

Summary

1. battery
2. burn
3. gasoline
4. clean
5. engine

Unit 16. Recording Sounds**Vocabulary Practice****A. Write the letters for each word.**

1. headphones
2. loud
3. microphone
4. change
5. clear
6. music

B. Look at the pictures and complete the sentences.

1. loud
2. change
3. microphone
4. music

Sentence Practice

1. Does it sound good?
2. The singer's voice is high.
3. They use a microphone to record sound.
4. They work on movies and TV.
5. They make them sound great!

Summary

1. music
2. change
3. microphone
4. loud
5. headphones