

## Focus on Reading Science Assessment Set C

### Overview

#### Reading Support in Science

Weekly Reader *Focus on Reading: Science* provides review of the supplementary reading support in Grade 3 in the critical content area of science. These assessments can be used both in and out of the program sequence and can be used according to each classroom's instructional setting and individual needs.

#### Comprehension Strategies and Thinking Skills

Comprehension strategies and science/thinking skills are incorporated into every assessment. Additionally, a wide variety of item types are used throughout the assessments, in order to familiarize children with common test formats. Item types include higher order thinking questions, multiple choice, cloze sentences, and graphic organizers.

#### Best Practices for Differentiating Instruction

While tips for inclusion of all learners are included in each Teacher's Guide lesson, additional tips for differentiation include the following:

- **Learning Environment**

Encourage children of all abilities to participate actively in class by creating an inclusive learning environment that addresses all children's learning styles, and appeals to multiple intelligences.

- **Grouping Strategies**

Use grouping strategies, including pair and small-group work, to provide opportunities for children to build oral language skills, to share knowledge, and to provide varied opportunities to demonstrate what they have learned.

- **Technology**

Encourage children to demonstrate their understanding through varied media. Technology can help you customize learning for children who need to work at a different pace than others, and it can also be helpful in engaging visual, auditory, and kinesthetic learners.

### Answer Key

An answer key is provided at the end of the assessments.

Name \_\_\_\_\_ Date \_\_\_\_\_

## **Thomas Edison and the Lightbulb**

1. Why wasn't Edison able to pay attention in school?

- A. He didn't like school.
- B. He couldn't sit very still.
- C. He couldn't hear very well.
- D. He wanted to make the teacher angry.

2. How does a telegraph machine send messages?

- A. through the Internet
- B. through a phone line
- C. through a cotton thread
- D. through an electric wire

3. What device did Edison use that helped his lightbulb burn longer?

- A. a gas burner
- B. a phonograph
- C. a telegraph
- D. a vacuum pump

Name \_\_\_\_\_ Date \_\_\_\_\_

**Thomas Edison and the Lightbulb**

4. How were other electric lights in the 1800s different from Edison's lightbulb?

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5. Look at the table below. Fill in the blanks to compare the early lightbulb with Edison's first lightbulb.

<b>Early Lightbulb</b>	<b>Edison's 1<sup>st</sup> Lightbulb</b>
Used glass tubes	
Used platinum wire	

Name \_\_\_\_\_ Date \_\_\_\_\_

## Henry Ford and the Model T Car

1. Why did Henry Ford want to build the Model T more quickly and for less money?
  - A. He wanted to make more money.
  - B. He wanted to make everyone jealous.
  - C. He wanted to show them in a car show.
  - D. He wanted everyone to be able to buy one.
  
2. In 1908, the Ford Model T cost
  - A. \$ 850
  - B. \$1,000
  - C. \$ 300
  - D. \$ 500
  
3. What was Ford's first inspiration for his car engine?
  - A. a sailboat
  - B. a steam engine
  - C. an electric engine
  - D. a horse-drawn carriage

Name \_\_\_\_\_ Date \_\_\_\_\_

## Henry Ford and the Model T Car

4. Why did people think the first cars were not very useful?

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5. Look at the chart below. It compares the first cars with the Model T car. Fill in the empty spaces with one characteristic of each.

First Cars	Model T
very heavy	
could not move very fast or for very long	moved faster and for longer periods
	ran on gasoline
built one at a time	

Name \_\_\_\_\_ Date \_\_\_\_\_

## **George Eastman and the Camera**

1. What did cameras in the 1860s and 1870s need in order to take pictures?

- A. a metal plate
- B. a piece of glass
- C. a piece of string
- D. a piece of cotton

2. How was Eastman able to start his own company?

- A. His family built the building.
- B. He won the company in a contest.
- C. He borrowed money from the bank.
- D. He sold his dry plates to photographers.

3. What was a consequence of more people having access to cameras?

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Name \_\_\_\_\_ Date \_\_\_\_\_

**George Eastman and the Camera**

4. Why was Eastman's flexible film an important invention?

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5. Look at the chart below. It shows how the Kodak camera is alike and different from the camera used long ago. Fill in the empty space in each column.

<b>Camera Long Ago</b>	<b>Kodak Camera</b>
Used glass plates	
Used wet chemicals	Uses dry chemicals

Name \_\_\_\_\_ Date \_\_\_\_\_

## Snowstorms

1. In most parts of the world, snow falls in the most southern places.

True or False? \_\_\_\_\_

2. Every snowflake looks the same. True or False?

\_\_\_\_\_

3. Which of the following is one of the snowiest cities in the United States?

- A. Buffalo, New York
- B. New York, New York
- C. Boston, Massachusetts
- D. Philadelphia, Pennsylvania

Name \_\_\_\_\_ Date \_\_\_\_\_

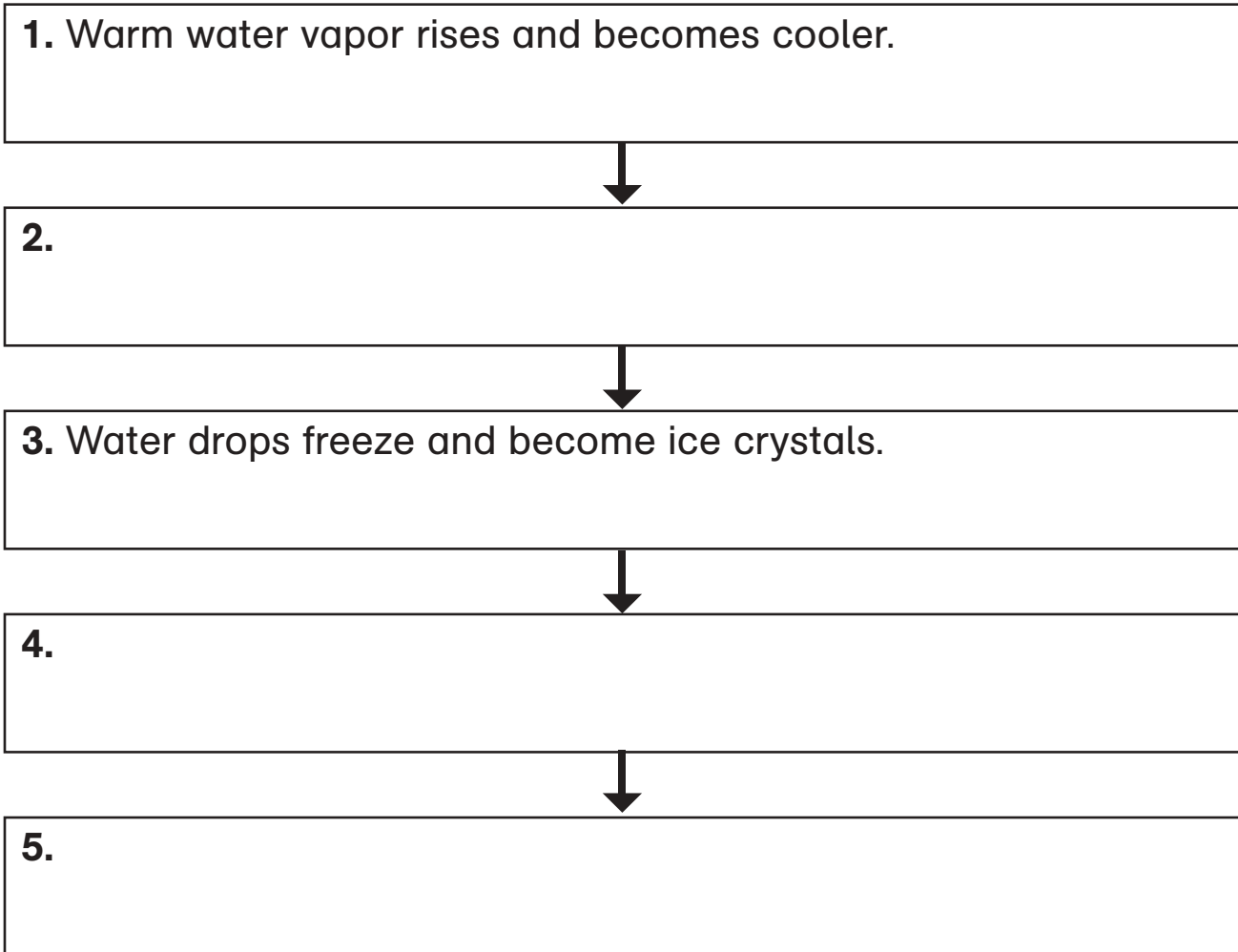
## Snowstorms

4. Why does sleet sometimes fall instead of snow?

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5. Fill in the chart below that shows how a snowflake is formed.



Name \_\_\_\_\_ Date \_\_\_\_\_

## **Tornadoes**

1. Tornadoes can be shaped like a \_\_\_\_\_ and  
move in a \_\_\_\_\_ pattern.

2. A funnel that moves across a lake or sea is called a  
\_\_\_\_\_.

3. The Tri-State Tornado of 1925 hit the states of Illinois, Indiana,  
and \_\_\_\_\_ .

Name \_\_\_\_\_ Date \_\_\_\_\_

## Tornadoes

4. How has technology helped people stay safe from tornadoes? Give at least two examples.

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5. Look at the chart below. Decide what the question would be for each answer and fill in the chart. The first one has been done as an example.

Question	Answer
When is a funnel cloud a tornado?	when a funnel touches the ground
	a big vacuum cleaner
	The warm air and cold air twist around.
	People take shelter.

Name \_\_\_\_\_ Date \_\_\_\_\_

## **Hurricanes**

1. The center of a hurricane is called the \_\_\_\_\_.

2. In which part of the hurricane are the winds strongest?

- A. in the middle of the eye
- B. in the ring closest to the eye
- C. on the outermost ring of the cloud
- D. the winds are the same throughout the cloud

3. Where do hurricanes form?

- A. above land
- B. below sea level
- C. next to mountains
- D. above warm oceans

Name \_\_\_\_\_ Date \_\_\_\_\_

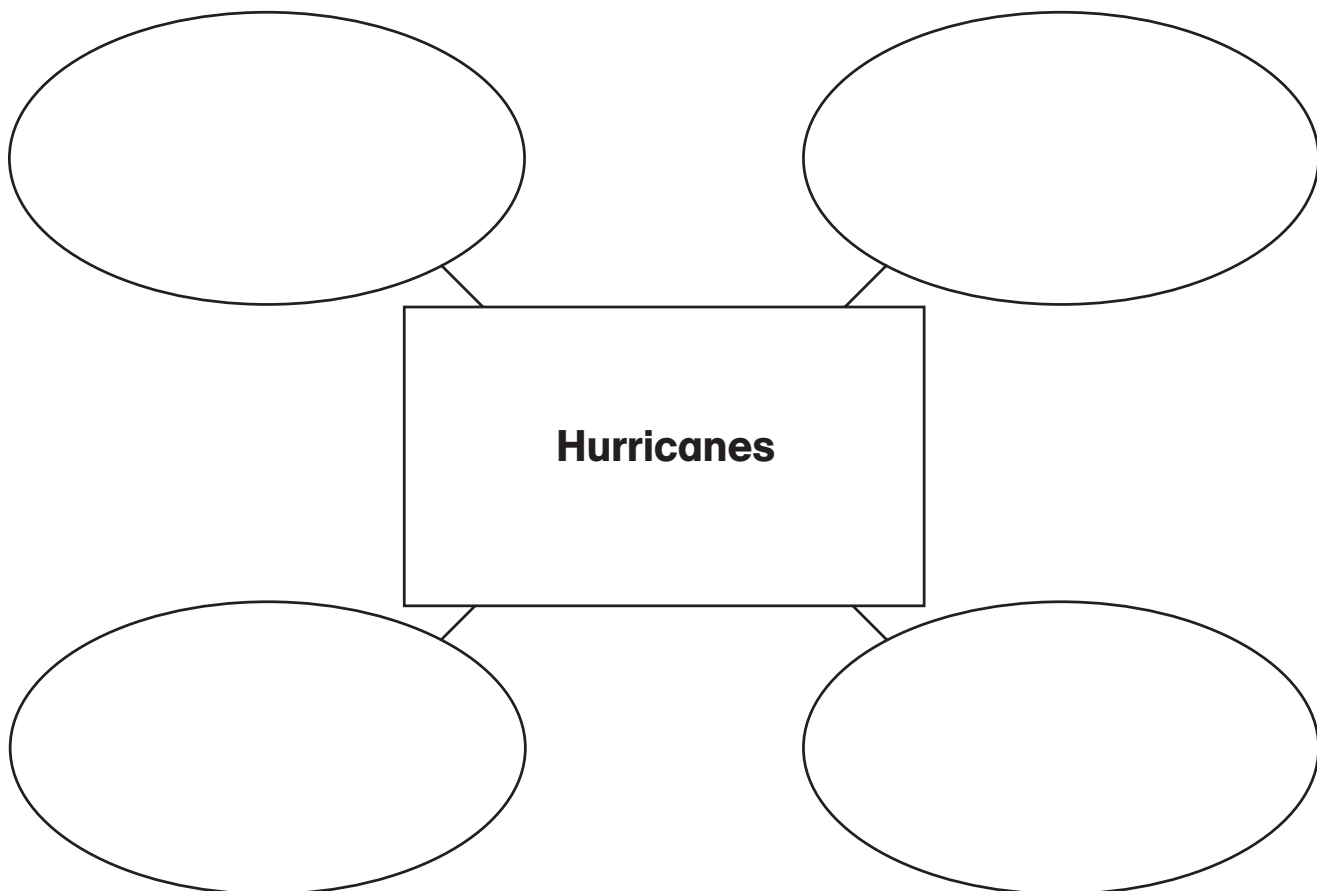
## Hurricanes

4. You notice on a weather report that a storm over the ocean is heading towards the East Coast of the United States. Do you think the storm will most likely weaken or grow stronger? Why?

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5. Complete this chart with what you know about hurricanes.



Name \_\_\_\_\_ Date \_\_\_\_\_

## Wheels and Axles

Fill in each blank using the correct word from the box below.

axle    gears    simple machine    sprockets    wheel

1. The wheel and axle is an example of a(n)  
\_\_\_\_\_.
2. The \_\_\_\_\_ is at the center of the wheel and helps it turn.
3. Teeth on a bike's \_\_\_\_\_ catch the chain to make the rear wheel turn.

Name \_\_\_\_\_ Date \_\_\_\_\_

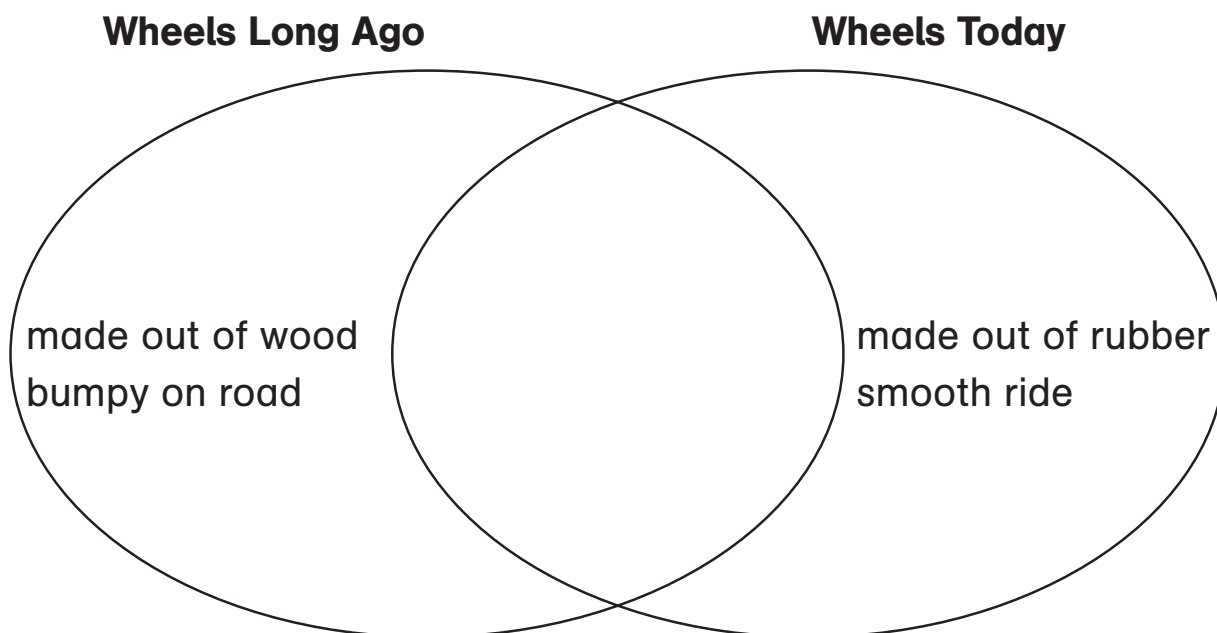
## Wheels and Axles

4. What advantage do the wheels of today have over solid wheels made out of wood?

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5. Look at the diagram below that compares wheels used today with wheels used long ago. Fill in the blanks to complete the diagram.



Name \_\_\_\_\_ Date \_\_\_\_\_

## Pulleys

1. Gravity makes pulling down on something easier than lifting up. True or False? \_\_\_\_\_
2. A grooved wheel causes too much friction.  
True or False? \_\_\_\_\_
3. What is the difference between a fixed pulley and a movable pulley?

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Name \_\_\_\_\_ Date \_\_\_\_\_

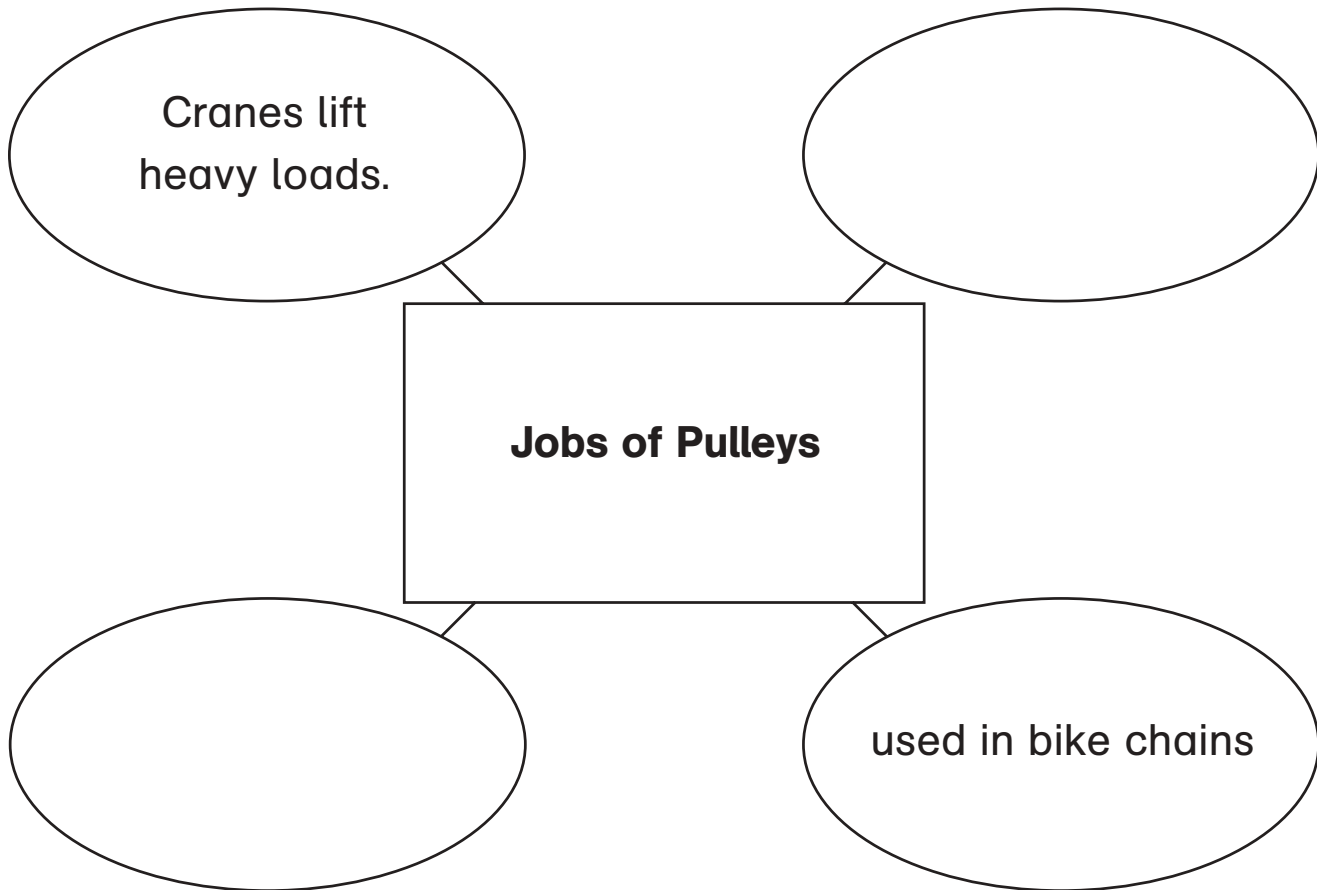
## Pulleys

4. What happens when the belt in a drive belt is crossed?

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5. Look at the web below. Fill in the blanks with two jobs pulleys do.



Name \_\_\_\_\_ Date \_\_\_\_\_

## Ramps, Wedges and Screws

Fill in each blank with the correct word from the box below.

wedge

pulley

crane

inclined plane

ridge

thread

1. A flat surface that is slanted at an angle is a(n)

\_\_\_\_\_.

2. When two inclined planes are put together to form a sharp-edged shape, they make a(n)

\_\_\_\_\_.

3. A screw has ridges called a(n) \_\_\_\_\_ that spiral around the screw.

Name \_\_\_\_\_ Date \_\_\_\_\_

## Ramps, Wedges and Screws

4. How does a ramp make lifting a heavy box into a truck easier?

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5. Fill in the blanks in the chart below that show the differences between a ramp, wedge, and screw.

Ramp	Wedge	Screw
an inclined plane		

Name \_\_\_\_\_ Date \_\_\_\_\_

## **Animals of the Land**

**Fill in each blank using the correct word from the box below.**

megalops    barren ground caribou    ice floes    mule deer    taiga

1. Hatchlings of the red crabs of Australia are called  
\_\_\_\_\_ .
2. The animal that migrates the longest distance, more than 3,000 miles, is the \_\_\_\_\_.
3. Polar bears spend part of the year living on large floating sheets of ice called \_\_\_\_\_.

Name \_\_\_\_\_ Date \_\_\_\_\_

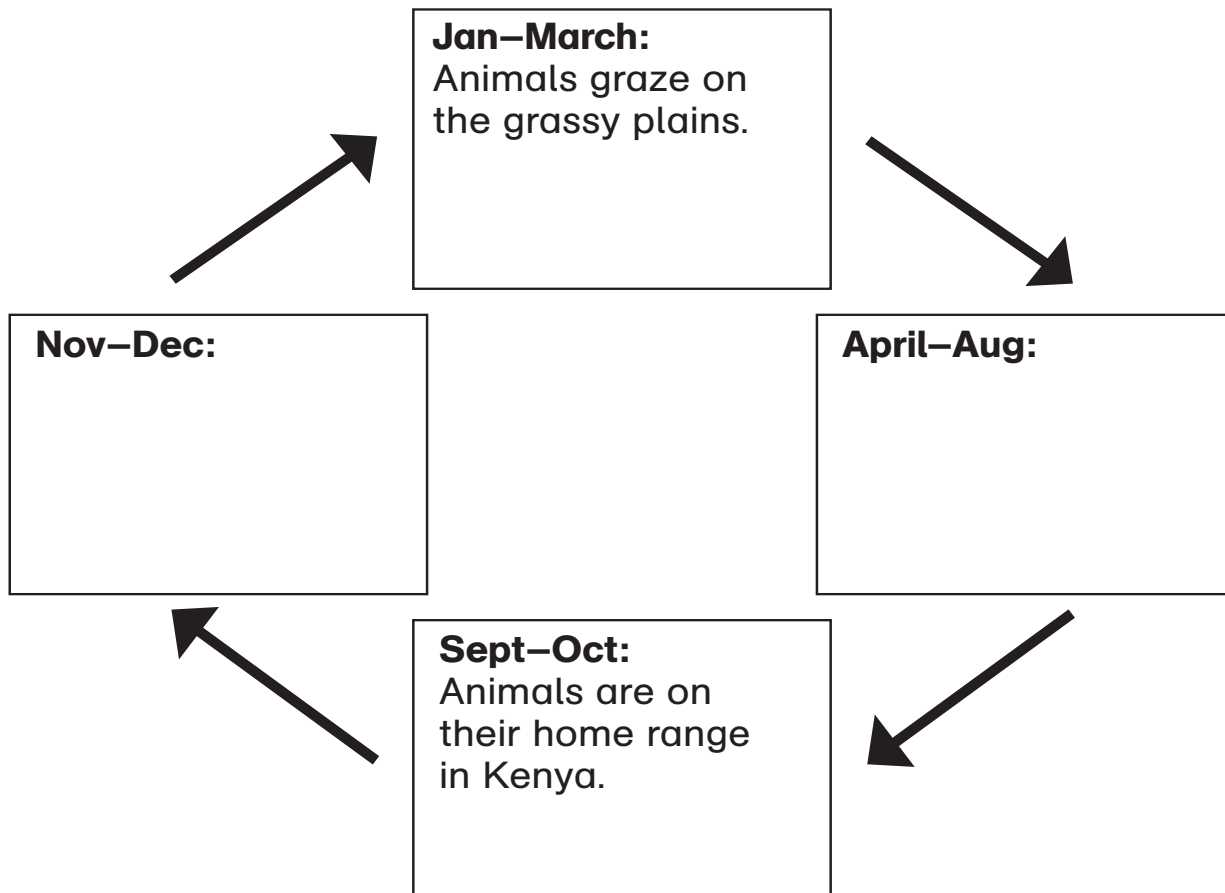
## Animals of the Land

4. What are three main differences between a queen ant and a red crab of Christmas Island?

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5. Fill in the empty boxes in the graph below that shows the migration of the Serengeti.



Name \_\_\_\_\_ Date \_\_\_\_\_

## **Animals of the Water**

1. What is one possible explanation for the mysteries of migration?

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3. Why do gray whales migrate to warm water in the fall?

- A. to find more food
- B. to find new homes
- C. to have their babies
- D. to build up blubber, or fat

3. What is one way salmon and sea turtles are similar?

- A. They both eat krill.
- B. They are both pink in color.
- C. They are both lifelong travelers.
- D. They both lay their eggs on land.

Name \_\_\_\_\_ Date \_\_\_\_\_

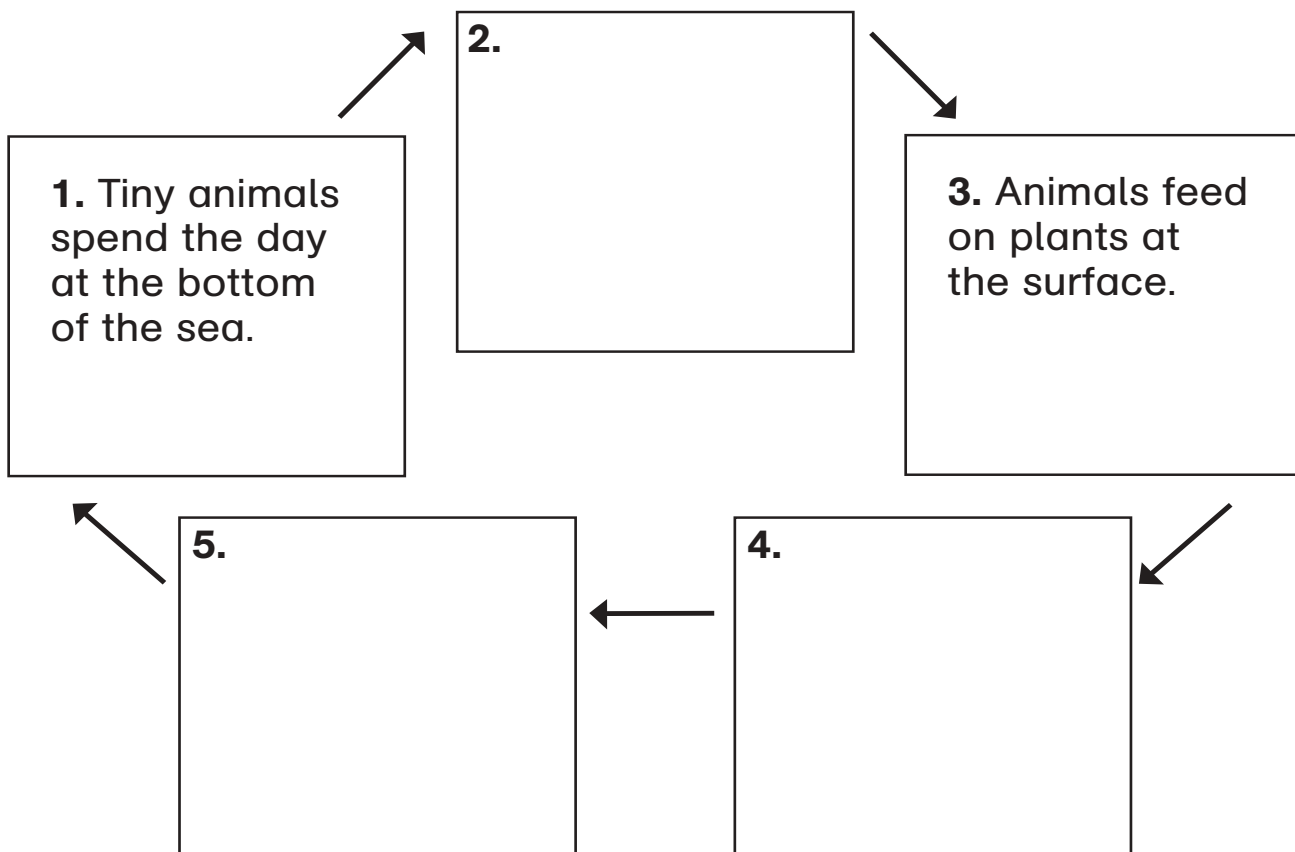
## Animals of the Water

4. Why is it important for the spiny lobsters to use their antenna during migration?

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5. A vertical migration cycle takes place daily in the Sargasso Sea. Fill in the empty boxes below with the correct migration steps.



Name \_\_\_\_\_ Date \_\_\_\_\_

## **Animals of the Air**

1. The monarch butterfly spends most of its life span mating and laying eggs. True or False? \_\_\_\_\_
  
2. Migrating locusts only eat a small amount of food in the areas where they migrate. True or False? \_\_\_\_\_
  
3. What is one way scientists track migration routes of birds?
  - A. by chasing them in fast cars
  - B. by following them in a plane
  - C. by guessing where the birds will go
  - D. by attaching radio transmitters to the birds

Name \_\_\_\_\_ Date \_\_\_\_\_

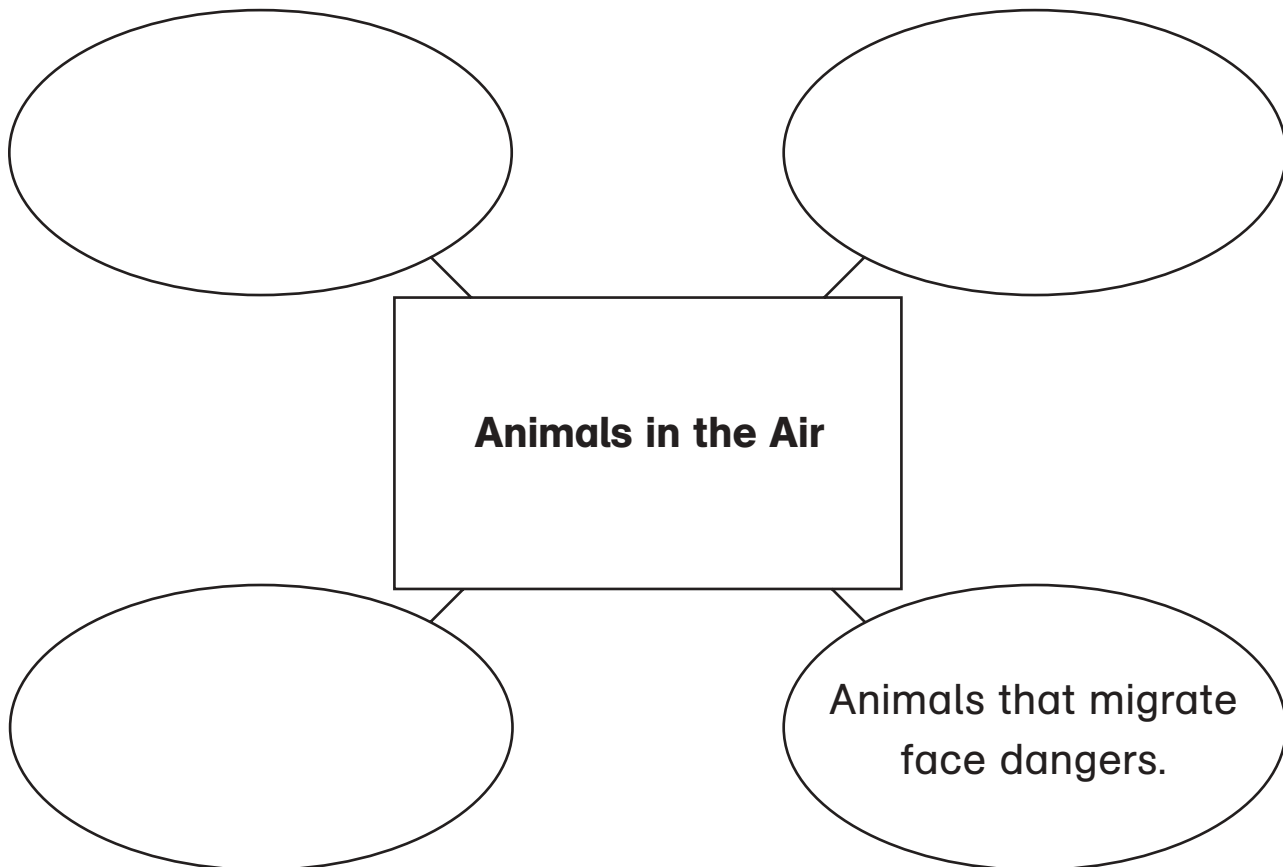
## Animals of the Air

4. In what ways are the ruby-throated hummingbird and the blackpoll warbler alike? Give at least two examples.

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5. Fill in the blanks in the chart below by listing a main idea from each chapter in the book.



## Set C

### Thomas Edison and the Lightbulb

1. He couldn't hear very well. 2. through an electric wire 3. a vacuum pump 4. They were too bright and burned out too quickly. 5. Used glass bulb; used cotton thread

### Henry Ford and the Model T Car

1. He wanted everyone to be able to buy one. 2. \$850 3. a steam engine 4. *Possible answer:* They cost too much and did not move very fast. 5. not as heavy; ran on steam or batteries; built on an assembly line

### George Eastman and the Camera

1. a piece of glass 2. He sold his dry plates to photographers. 3. *Possible answer:* People had to be careful about what they did since anyone could take a picture. 4. *Possible answer:* it helped more people take their own pictures; takes pictures quickly; no need for glass plates 5. Does not use glass plates; Only photographers could take pictures; Anyone can take pictures because a camera uses film

### Snowstorms

1. False 2. False 3. Buffalo, New York 4. *Possible Answer:* Sometimes snow falls into warmer air and melts. Then it falls into cold air and freezes again. 5. 2. Water vapor becomes water drops.; 4. Ice crystals form clouds.; 5. Crystals form together to make snowflakes.

### Tornadoes

1. funnel; zigzag 2. waterspout 3. Missouri 4. *Possible Answer:* Scientists use radar to predict when a tornado could hit. Television and radio stations can warn people of a tornado. 5. What is a funnel like?; How is a funnel cloud created?; What do you do when a tornado is coming?

### Hurricanes

1. eye 2. in the ring closest to the eye 3. above warm oceans 4. *Possible Answer:* Weaken. Storms usually lose strength as they reach land. 5. form above oceans; may be deadly; They spin in a circle.; Winds can reach 200 mph

### Wheels and Axles

1. simple machine 2. axle 3. sprockets 4. *Possible Answer:* Today's wheels use hubs and spokes which weigh less than the solid wheels used long ago. This makes the wheels easier to turn. 5. Left side: heavy, some made out of metal

Right side: Filled with air, lighter

Middle: *Possible answer:* round, wheels are still used for many different jobs

### Pulleys

1. True 2. False 3. A fixed pulley stays in one place. A movable pulley is attached to the load being lifted. 4. The second pulley turns in the opposite direction of the first pulley. 5. *Possible answer:* ski lifts, raise a flag, hoist sails

### Ramps, Wedges and Screws

1. inclined plane 2. wedge 3. thread 4. *Possible answer:* Even though a ramp makes the distance longer, it uses less effort because you are lifting the box a little at a time. 5. helps lift heavy loads; helps split things into two parts; helps fasten things together; two inclined planes put together; has ridges that spiral around

### Animals of the Land

1. megalops 2. barren ground caribou 3. ice floes 4. *Possible answer:* Only the queen ant reproduces, all red crabs reproduce. Queen ants lay their eggs on land, red crabs lay their eggs in the sea. The queen ant does not migrate, while the red crab migrates once a year to breed. 5. **April–Aug:** Animals move west and north, back to Kenya.; **Sept–Oct:** Animals are on their home range in Kenya.; **Nov–Dec:** Animals begin to move south into Tanzania.

### Animals of the Water

1. Animals' internal clocks may let them know when to set out on their journeys. 2. to have their babies 3. They are both lifelong travelers. 4. *Possible answer:* The antenna of each lobster touches the lobster ahead of it to stay with the group 5. 2. As night falls, the animals rise to the surface. 4. Animals descend as dawn breaks. 5. Animals are back safe in the deep sea.

### Animals of the Air

1. True 2. False 3. by attaching radio transmitters to the birds 4. *Sample answers:* They both fly long distances over water when they migrate; They don't stop for food, water, or rest when they migrate. 5. Birds migrate south for the winter; Insects migrate in large groups; Bats migrate by air, like birds and insects.