

Name: \_\_\_\_\_

**mystery** science

# First Grade

Student Booklet

What are you curious about?



# Animal Traits & Survival

1st Grade • NGSS • Unit Worksheets

## Lesson 1



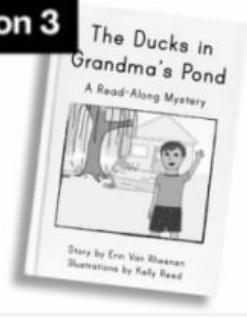
How can you help a lost baby animal find its parents?

## Lesson 2



Why do birds have beaks?

## Lesson 3



Why do baby ducks follow their mother?

## Lesson 4



Why are polar bears white?

## Lesson 5

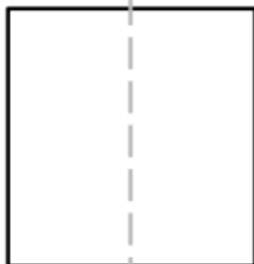


Why do family members look alike?

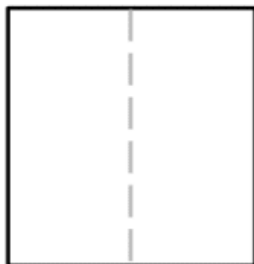
I am also curious about...

# Color a squirrel

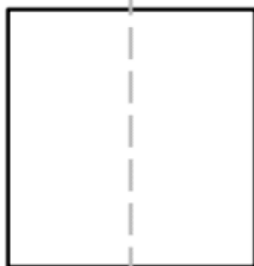
color test square 1



color test square 2



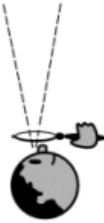


color test square 3



# See-Think-Wonder Chart

**mystery science**

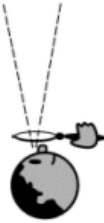


Name: \_\_\_\_\_

<p><b>See</b></p> <p>What did you observe?</p> 	<p><b>Think</b></p> <p>How can you explain what is happening?</p> 	<p><b>Wonder</b></p> <p>What questions do you have?</p> 

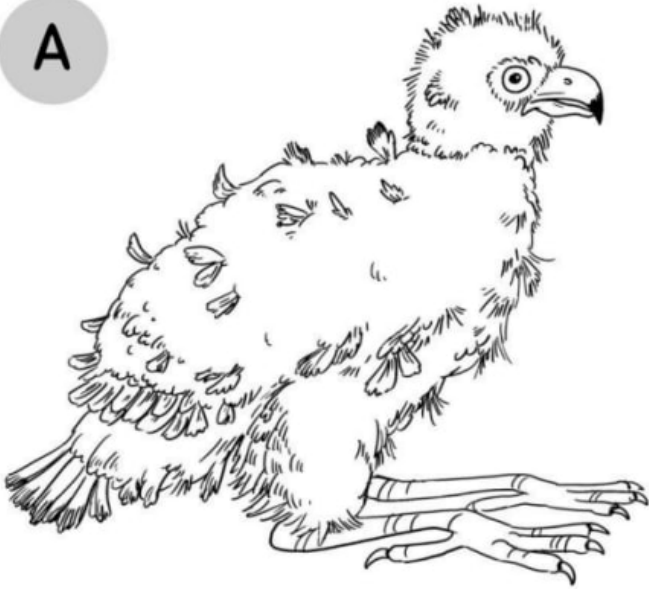
# See-Think-Wonder Chart

**mystery science**

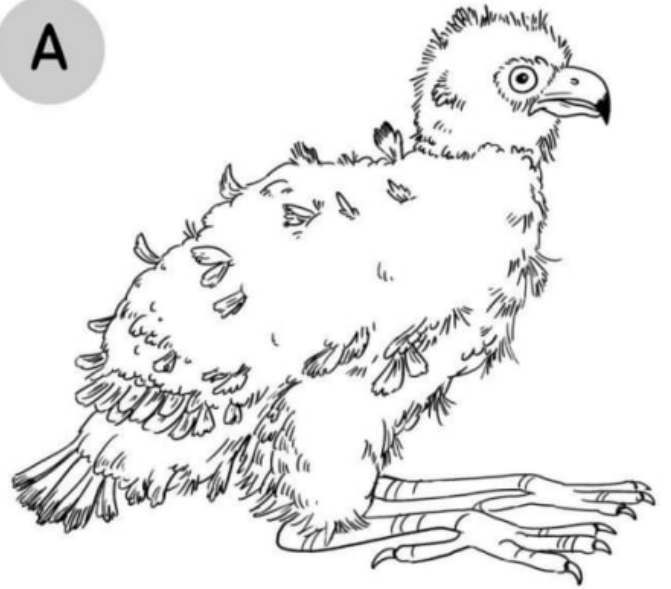
Name: \_\_\_\_\_

<p><b>See</b></p> <p>What did you observe?</p> 	<p><b>Think</b></p> <p>How can you explain what is happening?</p> 	<p><b>Wonder</b></p> <p>What questions do you have?</p> 

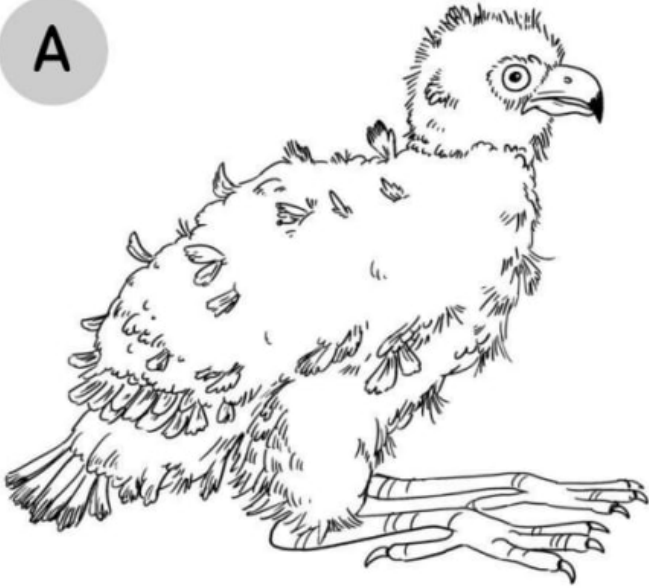
A



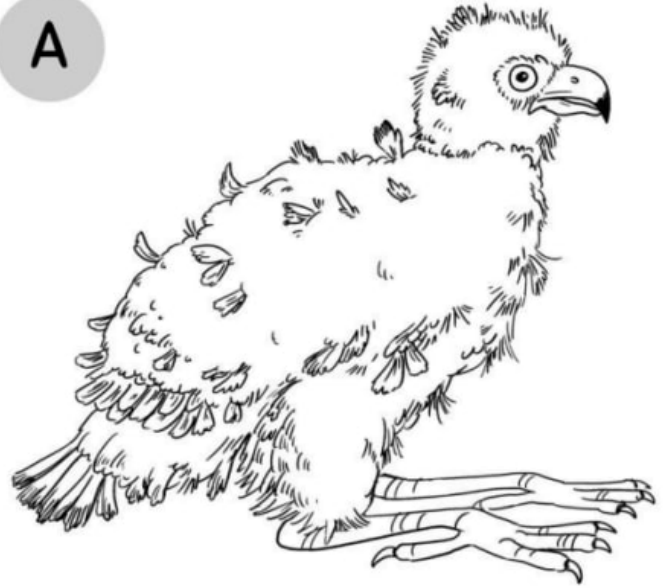
A



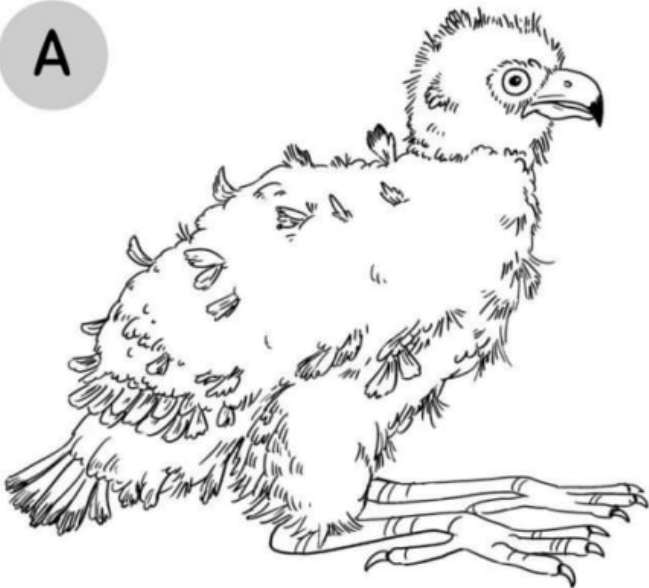
A



A



A



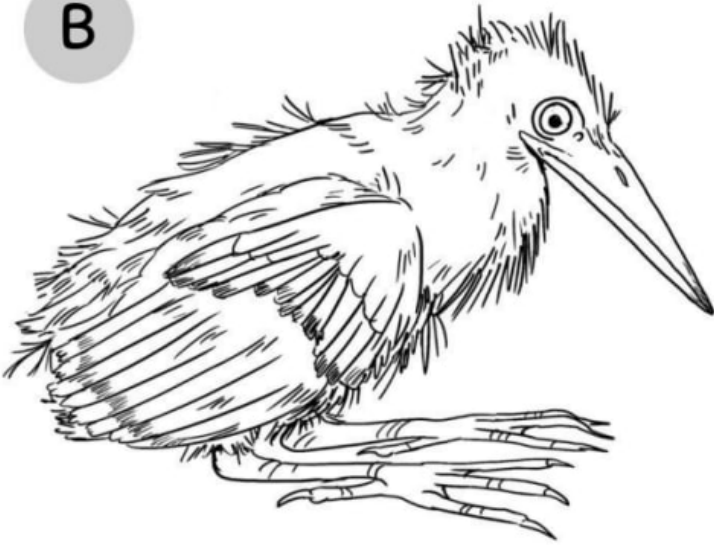
A



**mystery science**

How can you help a lost baby animal find its parents?

B



B



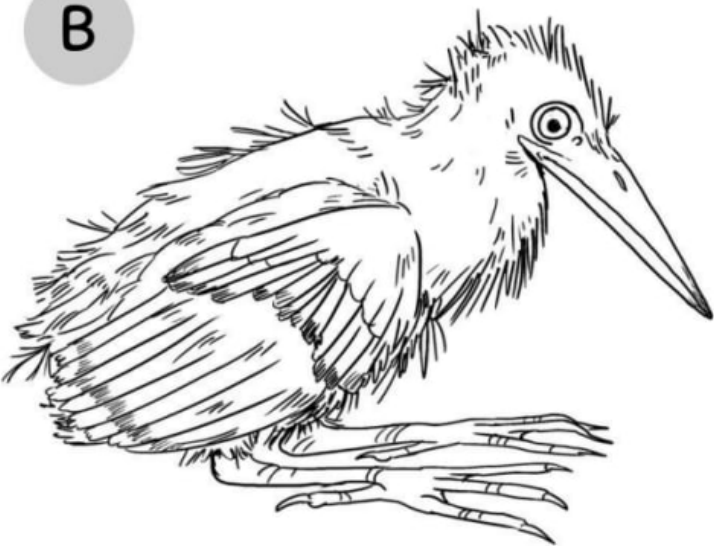
B



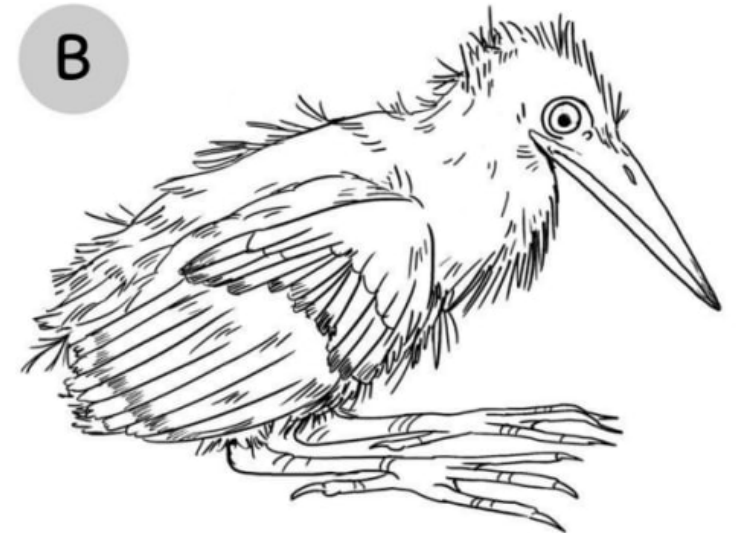
B



B



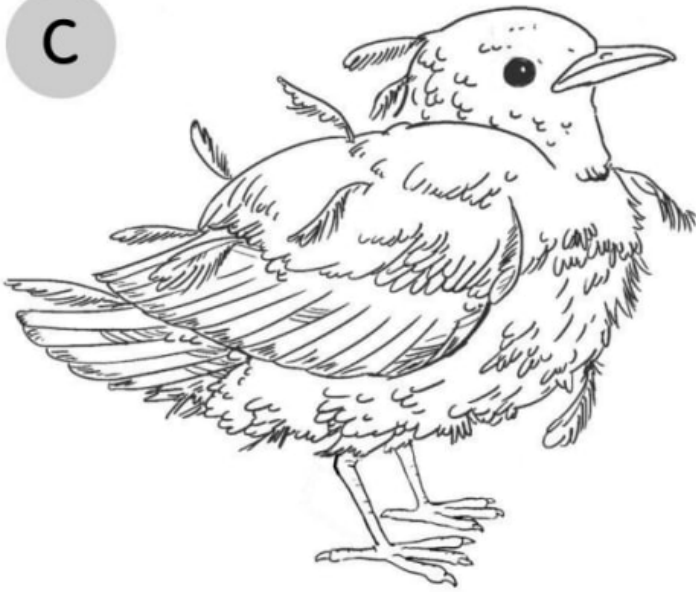
B



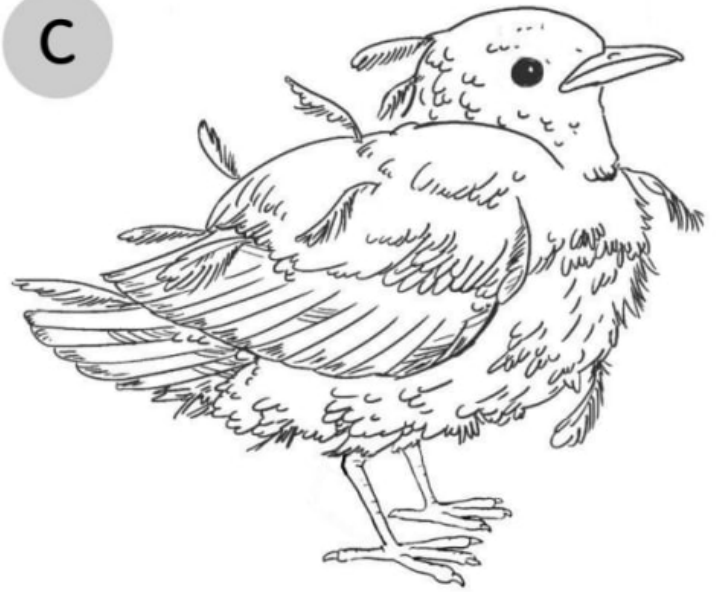
**mystery science**

How can you help a lost baby animal find its parents?

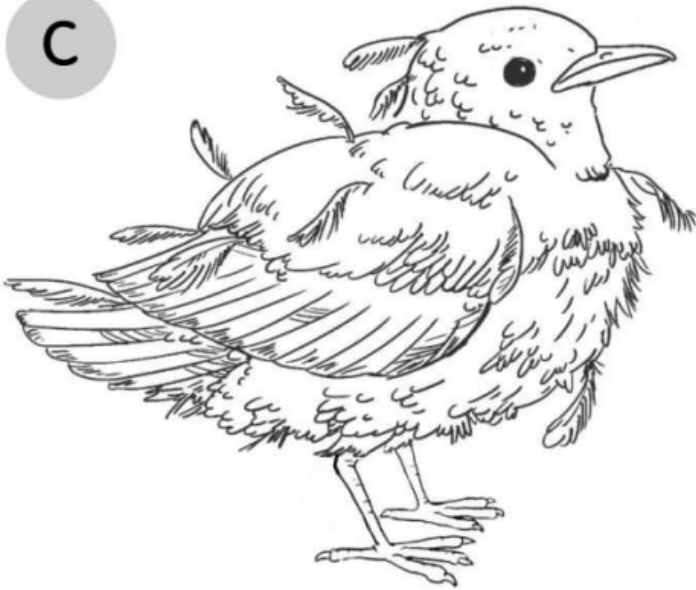
C



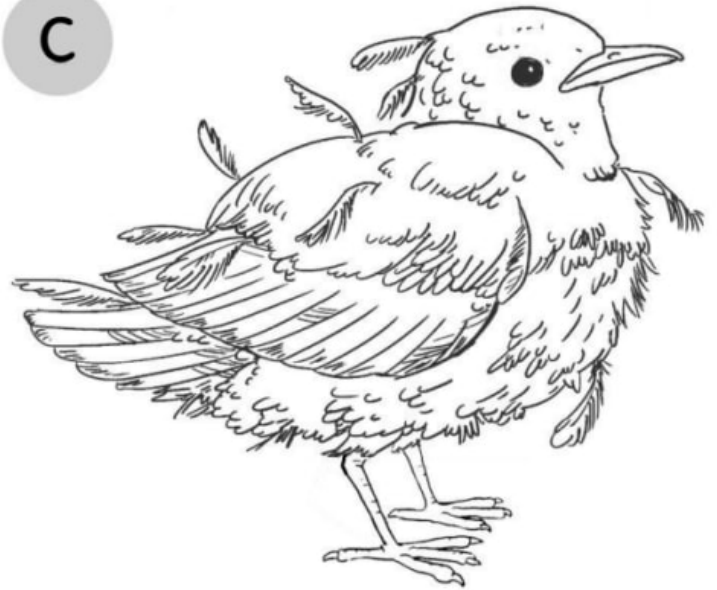
C



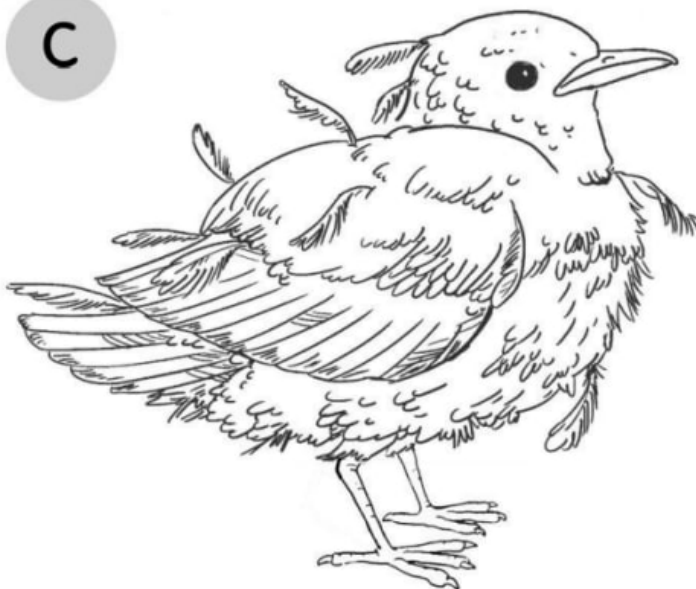
C



C



C



C



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How can you help a lost baby animal find its parents?



Name: \_\_\_\_\_

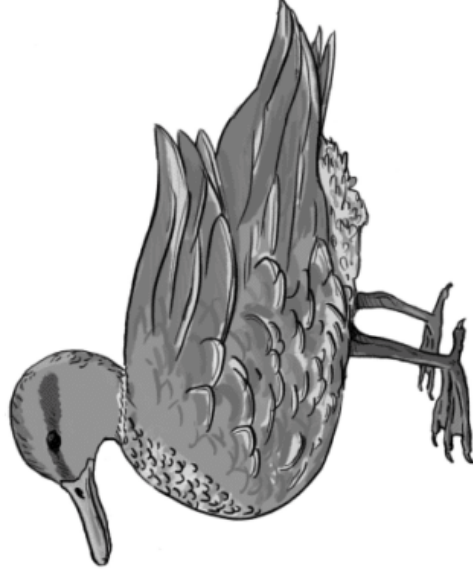
Draw an arrow between the baby and the adult bird that is its parent. Circle all the traits that helped you match them.



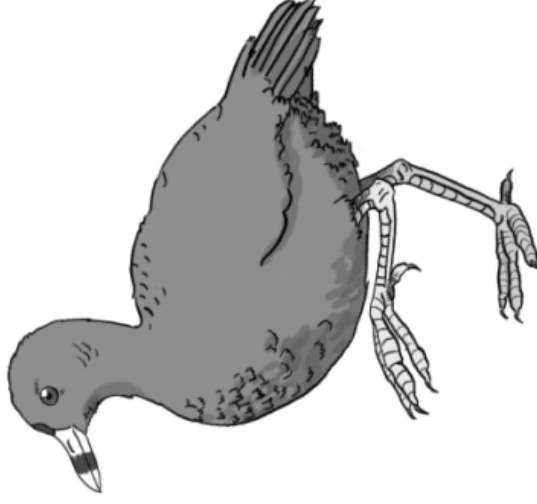
Baby Bird



Adult #1



Adult #2



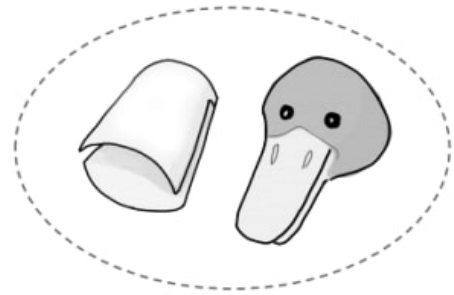
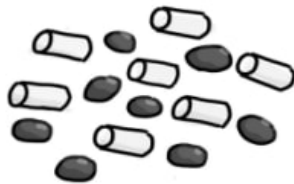
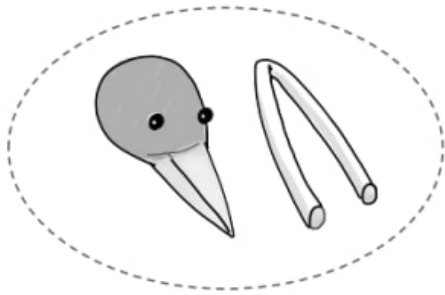
Adult #3

**mystery science**

How can you help a lost baby animal find its parent?

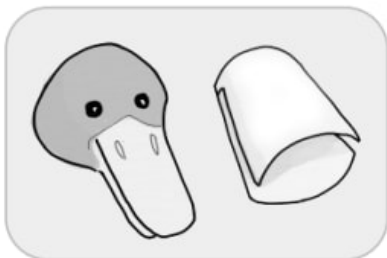
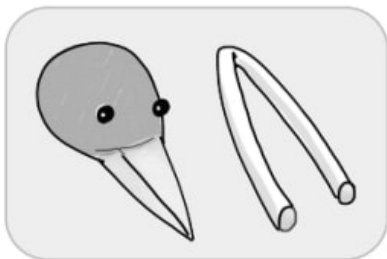
Name: \_\_\_\_\_

1. Your bird wants to eat food that is scattered in the rocks. Which beak will you use? Circle it.



2. How many pieces did you get? \_\_\_\_

3. Draw a line from each beak to the food it's best at getting.



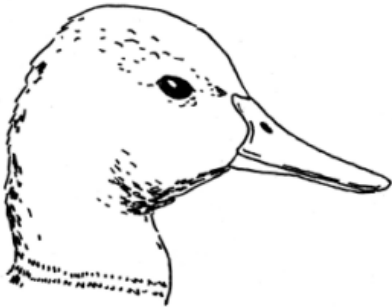
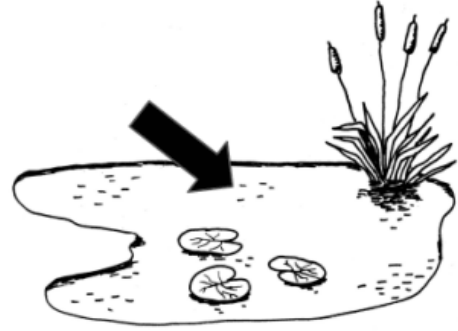
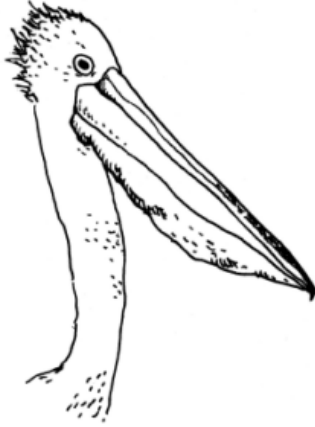
Name: \_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

# 1. Match each bird with its food.



# 2. We can figure out what a bird eats by...

\_\_\_\_\_

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\_\_\_\_\_

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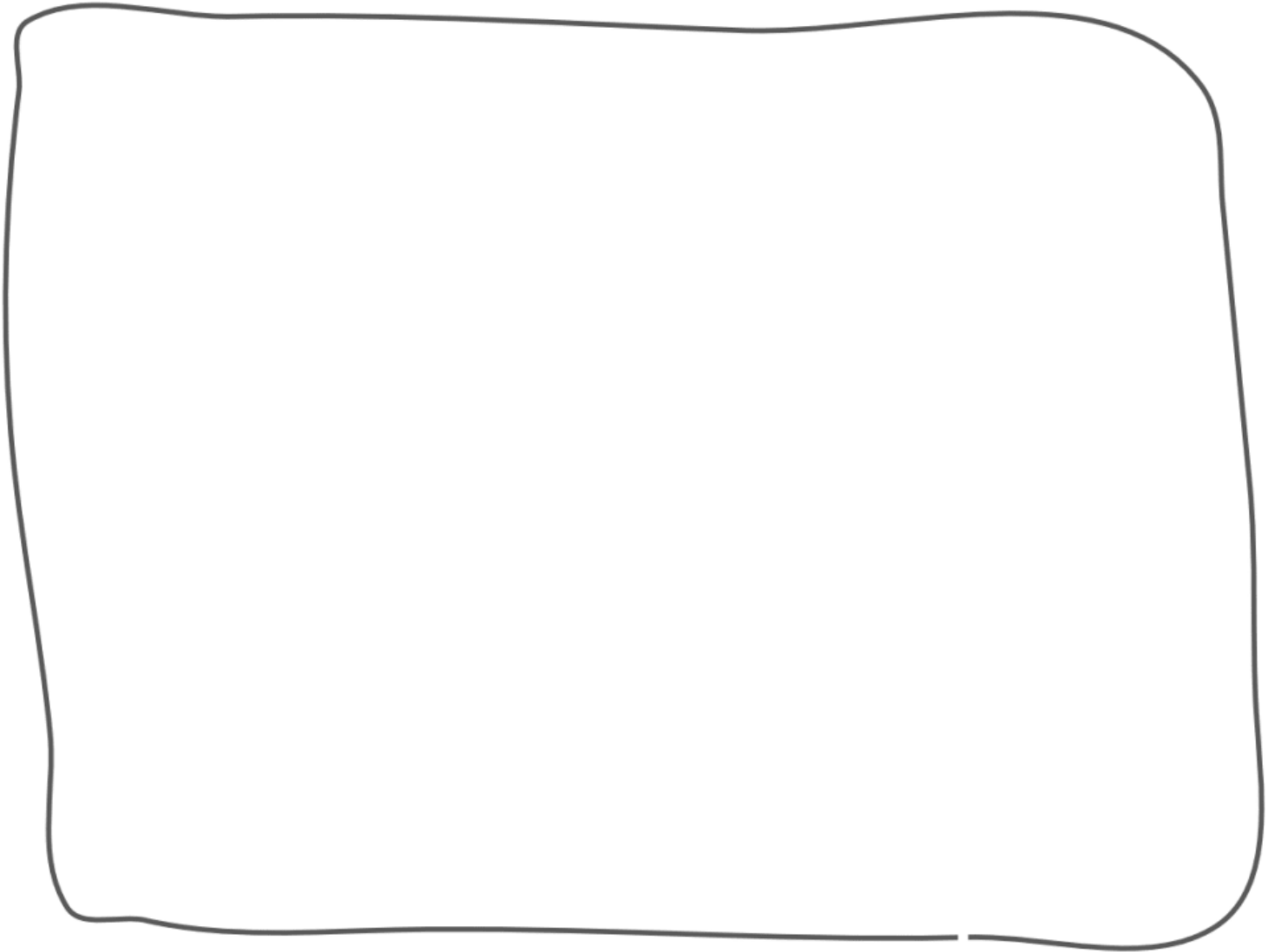
\_\_\_\_\_

Name:

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Draw and write your ideas.

Animal mothers help their young by...

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# Color a moth

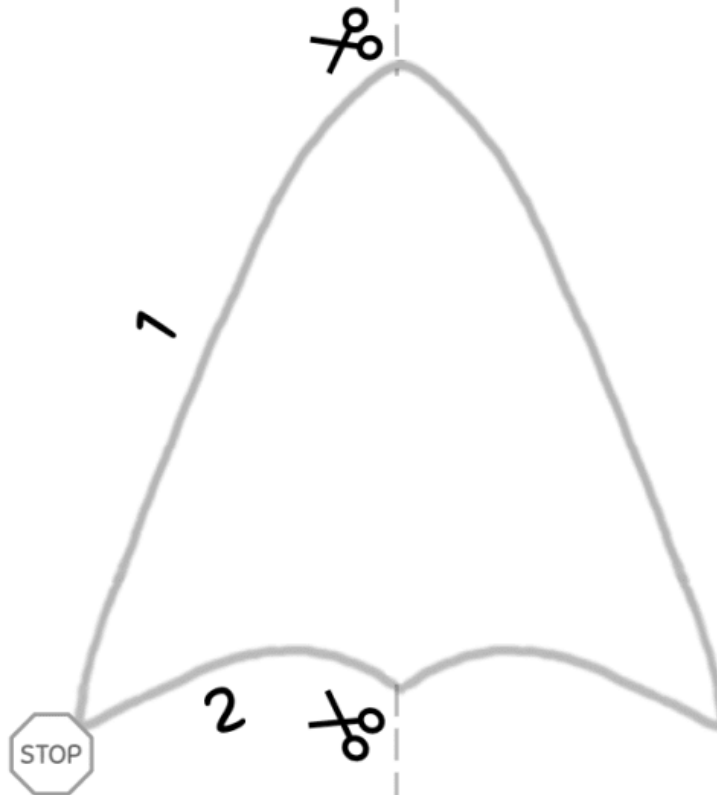
color test  
square 1



color test  
square 2

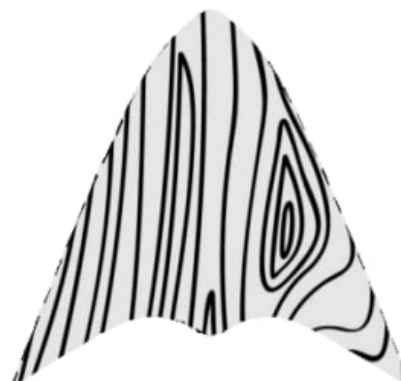
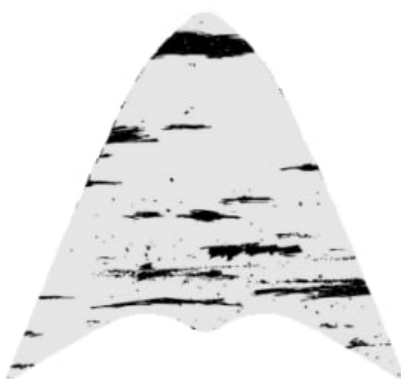
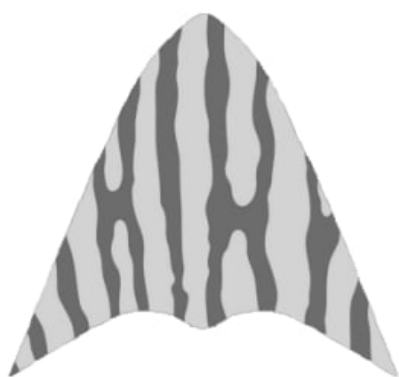


color test  
square 3



Name: \_\_\_\_\_

Look for moths like these,  
hiding in the trees :



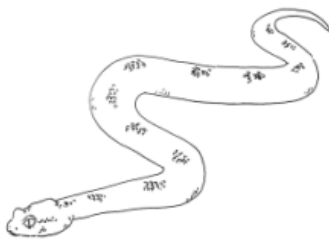
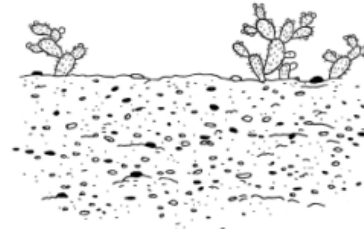
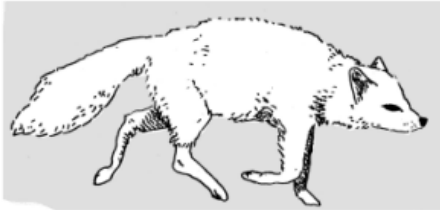
Circle the number of moths you  
find:

1      2      3      4      5

6      7      8      9

Name: \_\_\_\_\_

1. Match the animal to where it would blend in best.



2. Why is camouflage important for predators?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# Animal Matchup Cards

Parent Animals

**mystery science**

Why do family members look alike?

cat



**mystery science**

dog



**mystery science**

duck



**mystery science**

sheep



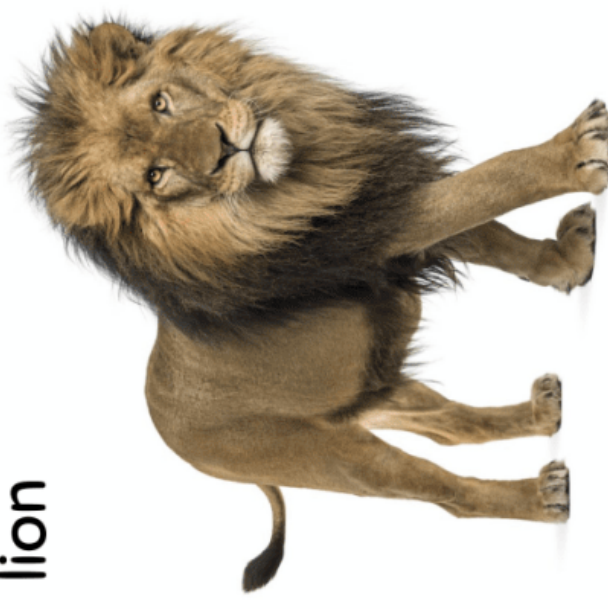
**mystery science**

pig



**mystery science**

lion



**mystery science**





# Animal Matchup Cards

Baby Animals

**mystery science**

Why do family members look alike?

kitten



**mystery science**

puppy



**mystery science**

duckling



**mystery science**

lamb



**mystery science**

piglet



**mystery science**

cub



**mystery science**



# Animal Matchup Cards

Parent Animals

**mystery science**

Why do family members look alike?

cat



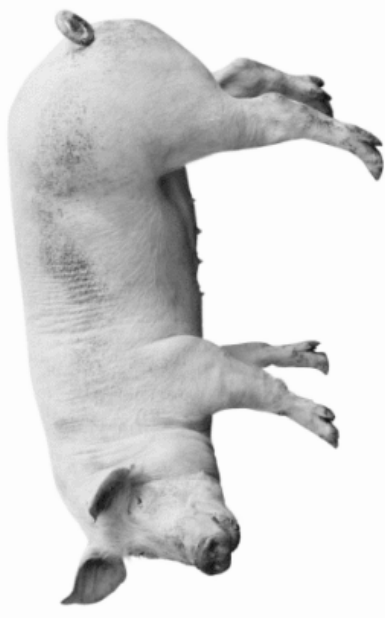
**mystery science**

duck



**mystery science**

pig



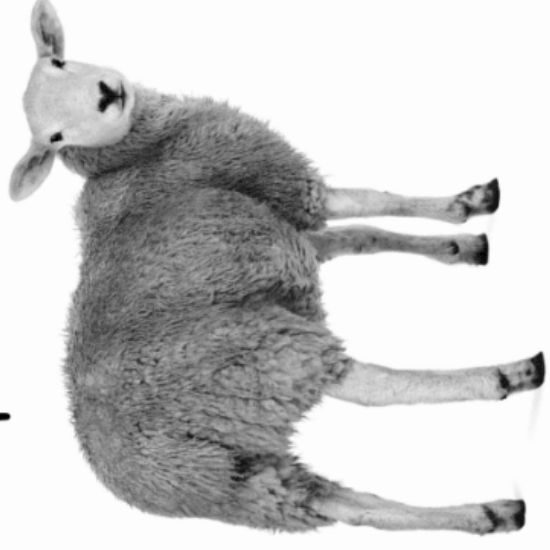
**mystery science**

dog



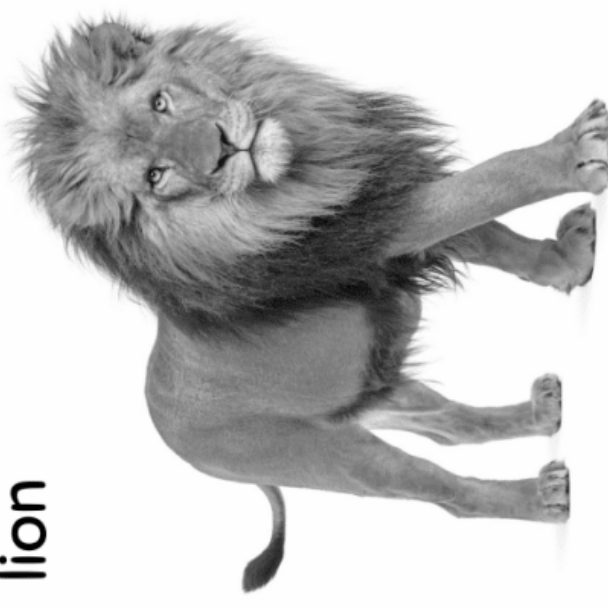
**mystery science**

sheep



**mystery science**

lion



**mystery science**



# Animal Matchup Cards

## Baby Animals

**mystery science**

Why do family members look alike?

kitten



**mystery science**

puppy



**mystery science**

duckling



**mystery science**

lamb



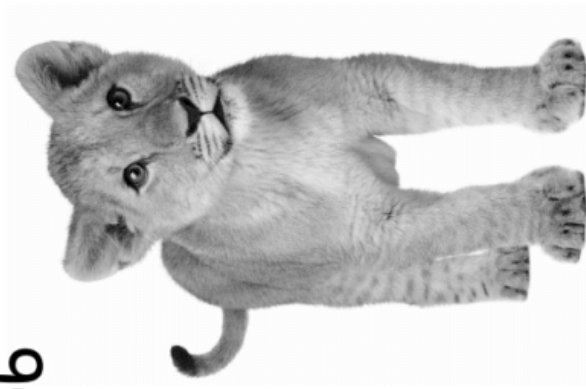
**mystery science**

piglet



**mystery science**

cub



**mystery science**

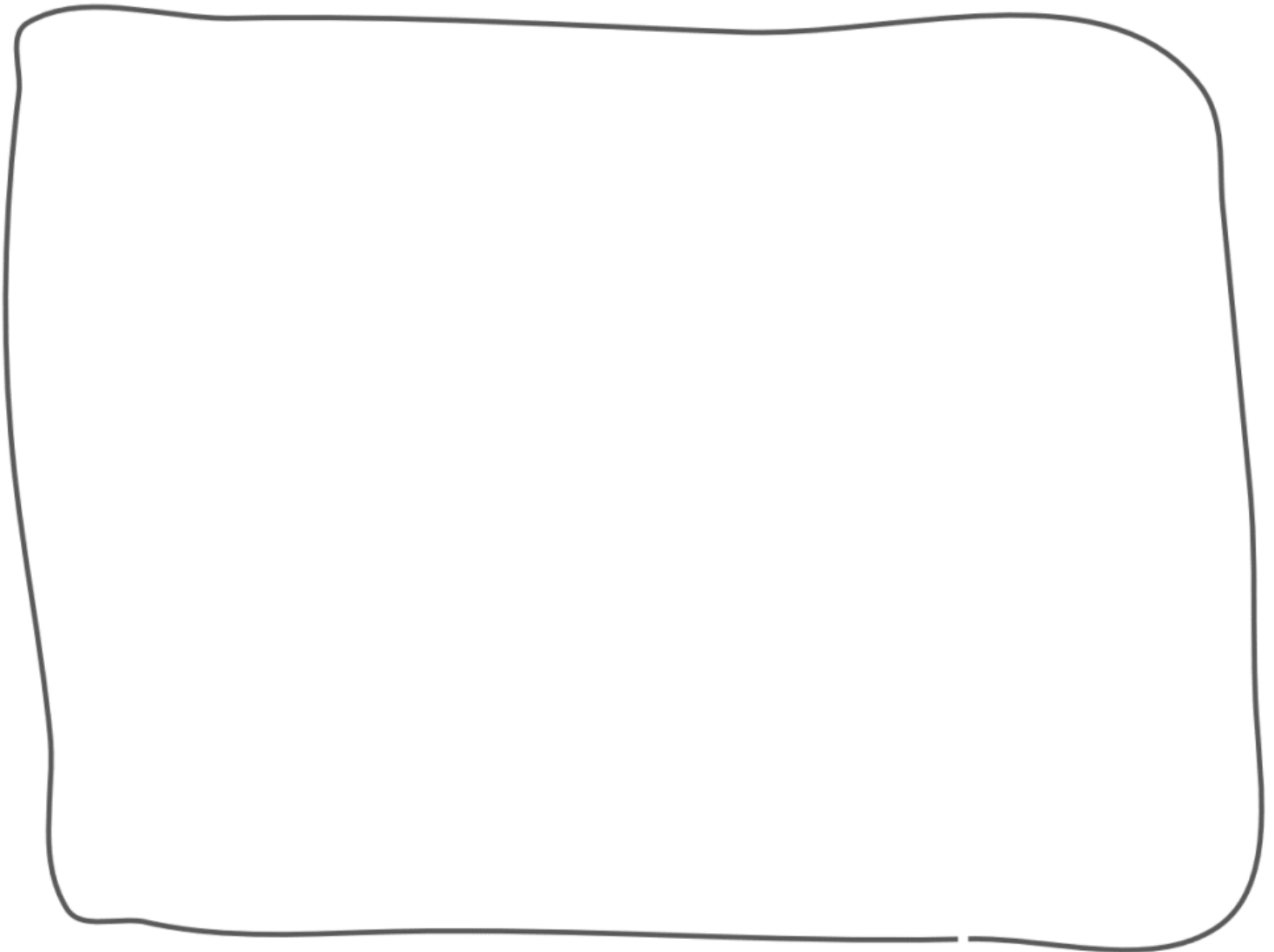


Name:

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Draw a baby animal with its parents.

How is the baby animal similar to its parents?

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# Animal Homes

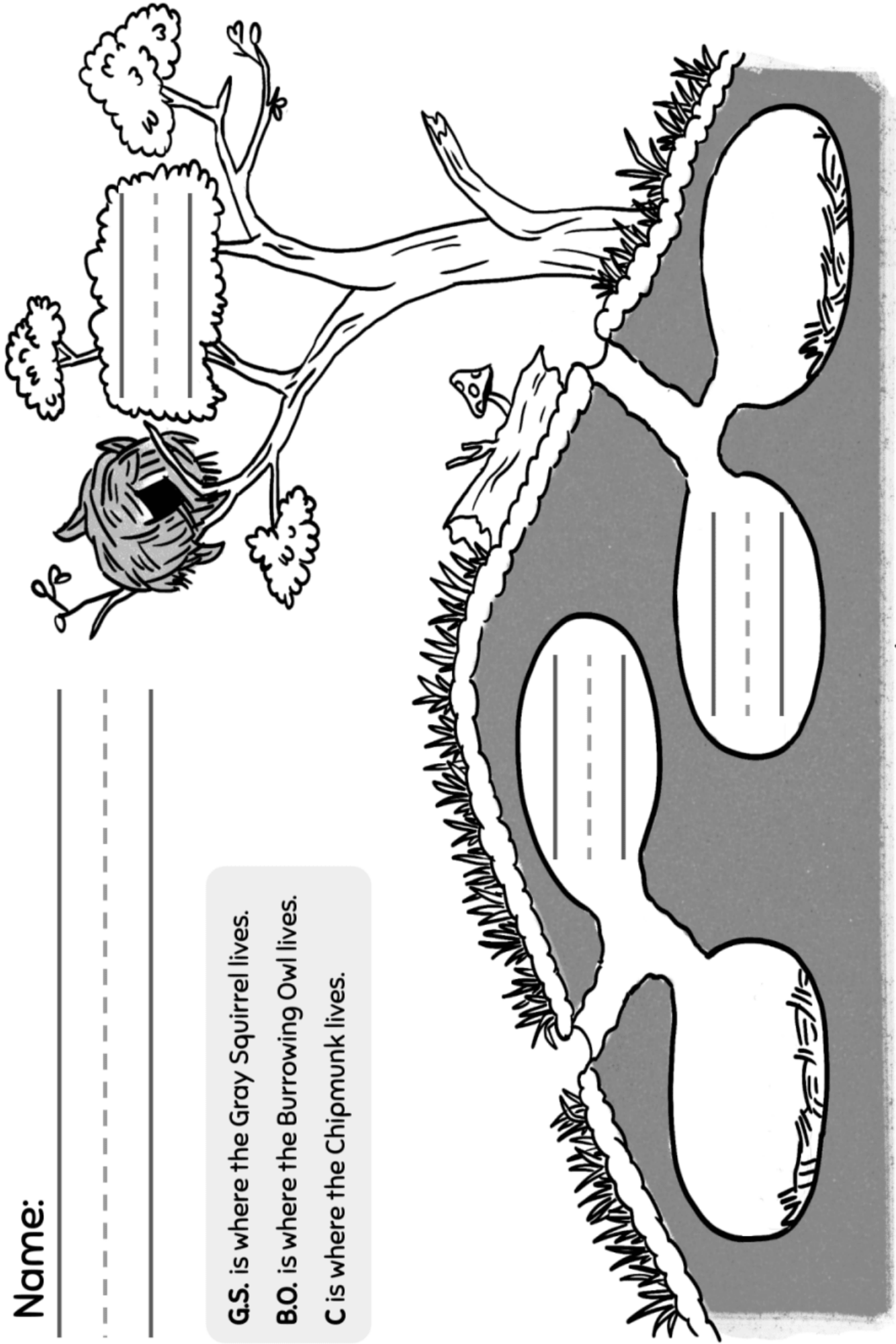
Name: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

G.S. is where the Gray Squirrel lives.  
B.O. is where the Burrowing Owl lives.  
C is where the Chipmunk lives.



# Plant Traits & Survival

1st Grade • NGSS • Unit Worksheets

**Lesson 1**




What will a baby plant look like when it grows up?

**Lesson 2**



Why don't trees blow down in the wind?

**Lesson 3**



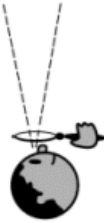


What do sunflowers do when you're not looking?

I am also curious about...

# See-Think-Wonder Chart

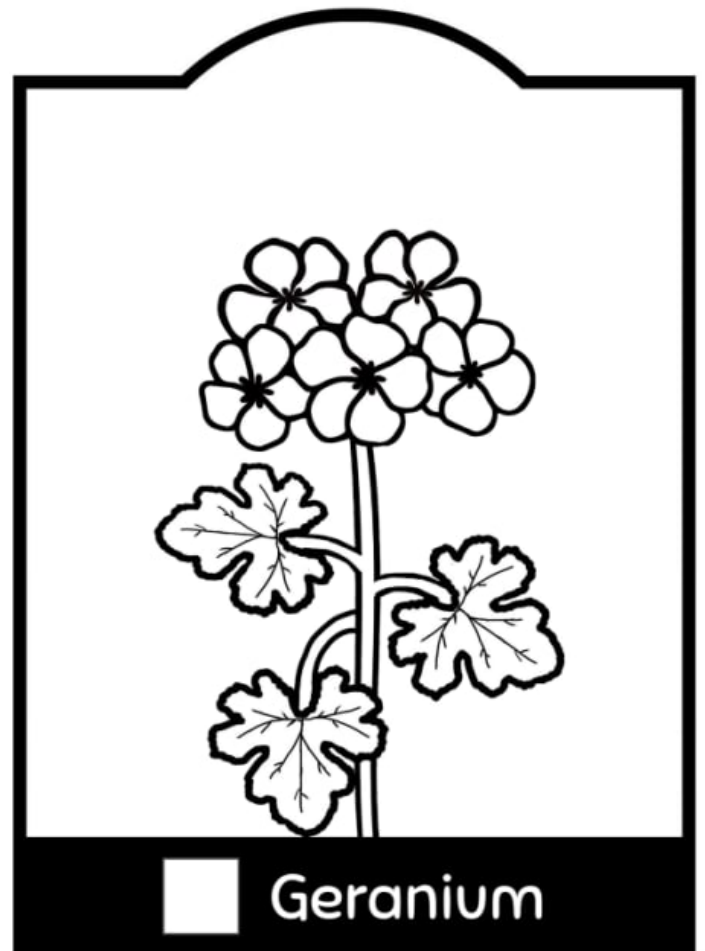
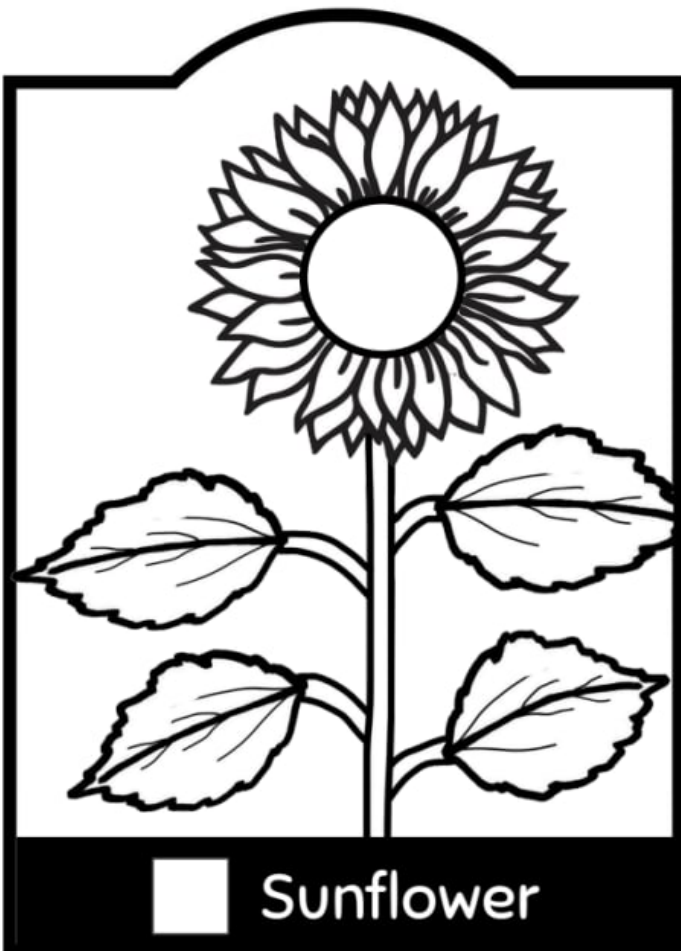
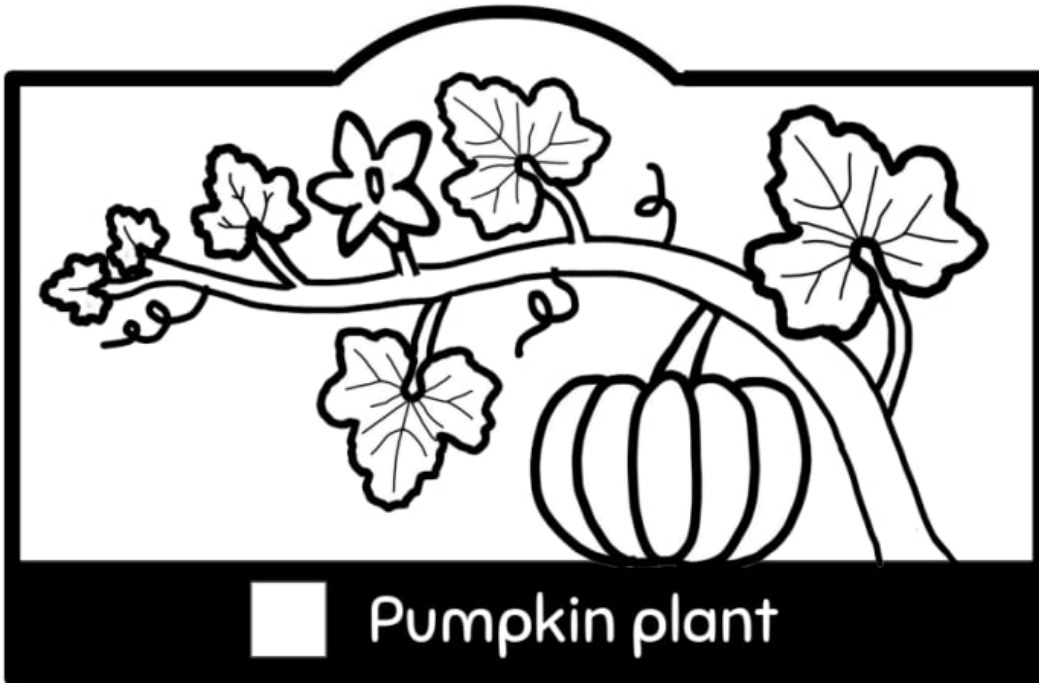
**mystery science**

Name: \_\_\_\_\_

<p><b>See</b></p> <p>What did you observe?</p> 	<p><b>Think</b></p> <p>How can you explain what is happening?</p> 	<p><b>Wonder</b></p> <p>What questions do you have?</p> 

# Look for clues

Name: \_\_\_\_\_



**mystery science**

What will a baby plant look like when it grows up?



Name: \_\_\_\_\_

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\_\_\_\_\_

Draw an arrow between each seedling and the correct adult plant. Circle all the clues that help you match them.



Seedling A



Seedling B



Seedling C



Watermelon  
Adult Plant #1



Tomato  
Adult Plant #2



Pepper  
Adult Plant #3

**mystery science**

What will a baby plant look like  
when it grows up?

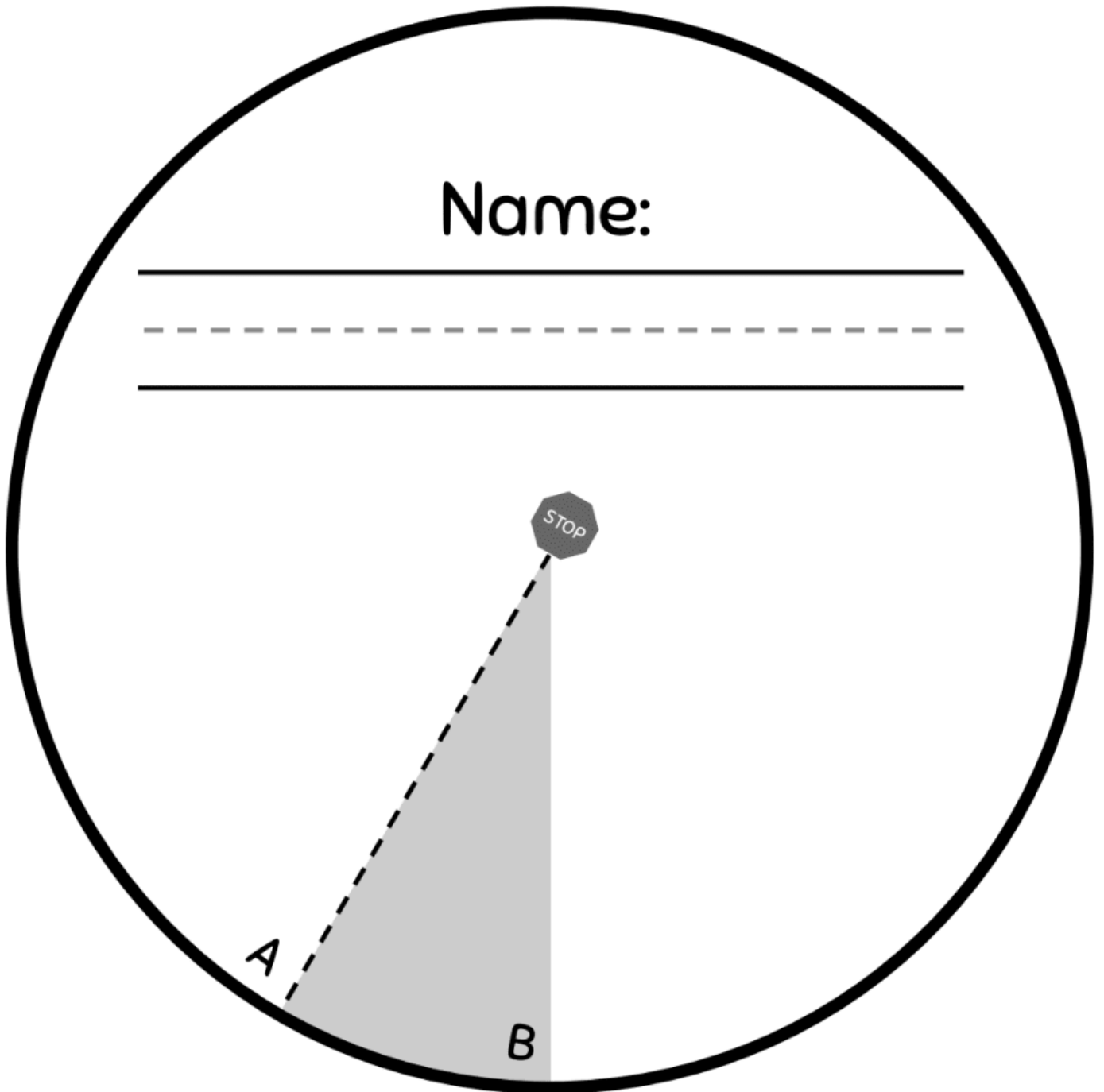
# umbrella top

Name:

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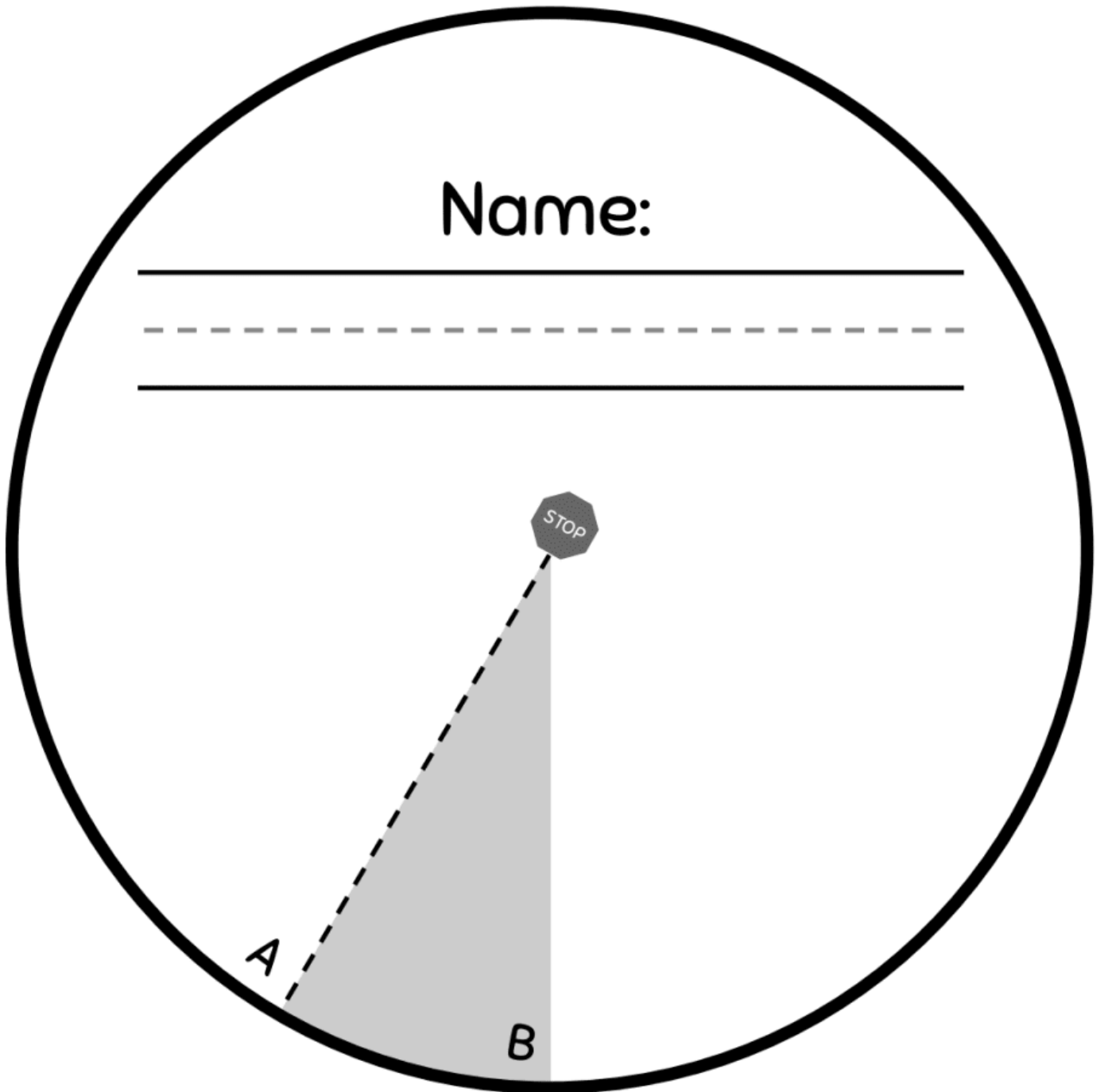
# umbrella top

Name:

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Name: \_\_\_\_\_

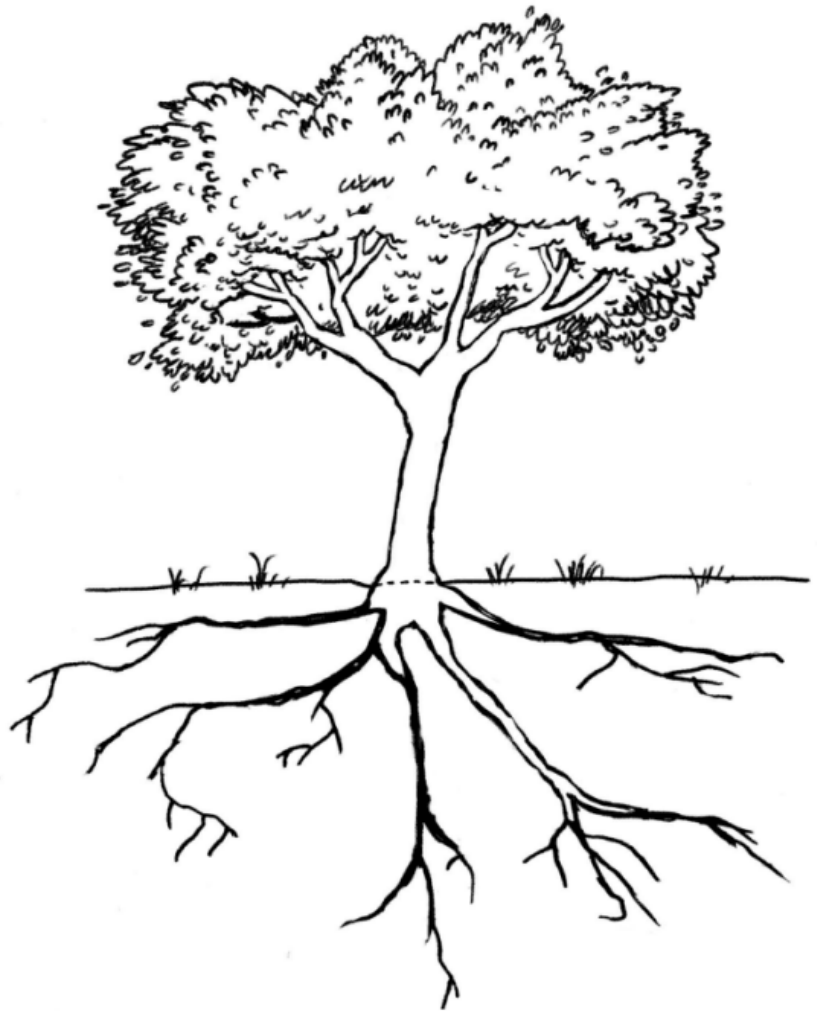
1. Draw an arrow from each word to that part of the tree.

trunk

branches

roots

leaves



2. One reason trees don't fall down is...

\_\_\_\_\_

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\_\_\_\_\_

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\_\_\_\_\_

Name: \_\_\_\_\_

1. Draw two things the flower needs to grow.



2. Describe two parts of the flower that help it get what it needs.

\_\_\_\_\_

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\_\_\_\_\_

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\_\_\_\_\_

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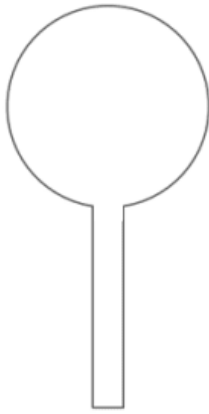
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# Tiny Water Lily

Name \_\_\_\_\_

Practice drawing your leaf:



Draw your final leaf:

**mystery science**

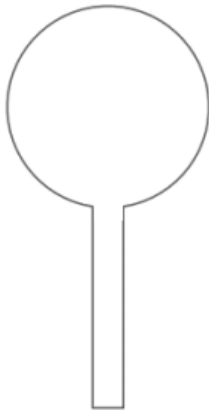
Plant Traits & Survival | Performance Task



# Tiny Water Lily

Name \_\_\_\_\_

Practice drawing your leaf:



Draw your final leaf:

**mystery science**

Plant Traits & Survival | Performance Task

# Day Patterns

1st Grade • NGSS • Unit Worksheets

## Lesson 1



Could a statue's shadow move?

## Lesson 2



What does your shadow do when you're not looking?

## Lesson 3



How can the Sun help you if you're lost?

## Lesson 4



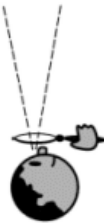
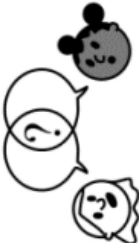

Why do you have to go to bed early in the summer?

I am also curious about...

# See-Think-Wonder Chart

**mystery science**

Name: \_\_\_\_\_

<p><b>See</b></p> <p>What did you observe?</p> 	<p><b>Think</b></p> <p>How can you explain what is happening?</p> 	<p><b>Wonder</b></p> <p>What questions do you have?</p> 



Name: \_\_\_\_\_

1. For each picture, look at where the woman's shadow is. Then, draw where the Sun is.



Name: \_\_\_\_\_

1. Match shadows to the time of day you would see them.

short shadows



morning or  
evening

long shadows



midday

2. Shadows change during the day because...

\_\_\_\_\_

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\_\_\_\_\_

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\_\_\_\_\_



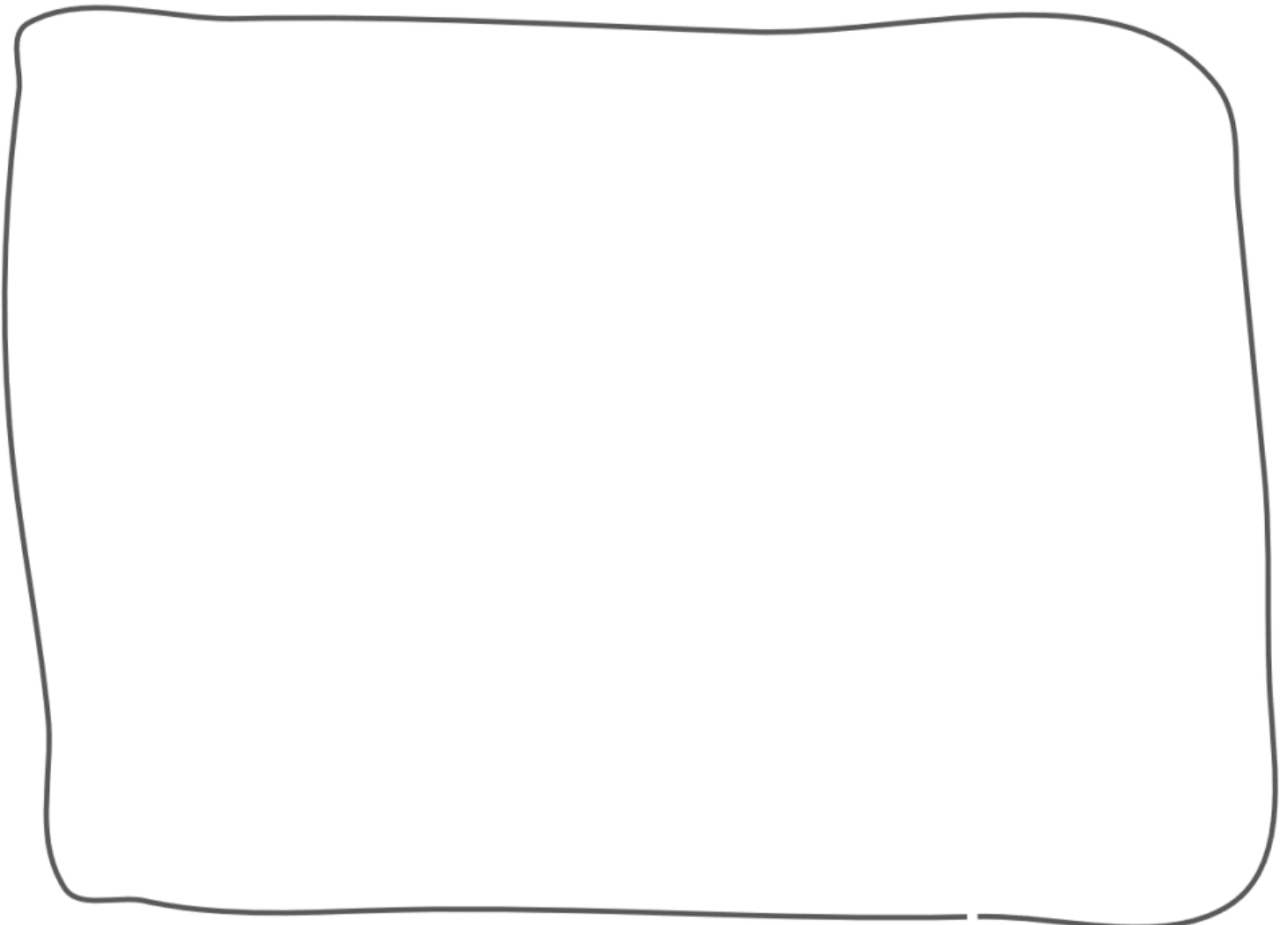
Name:

1. Complete the sentences.

The Sun rises in the...

The Sun sets in the...

2. Draw how the Sun moves during the day.





# SUMMER SUNSHINE

1st-Grade

Reader :-)

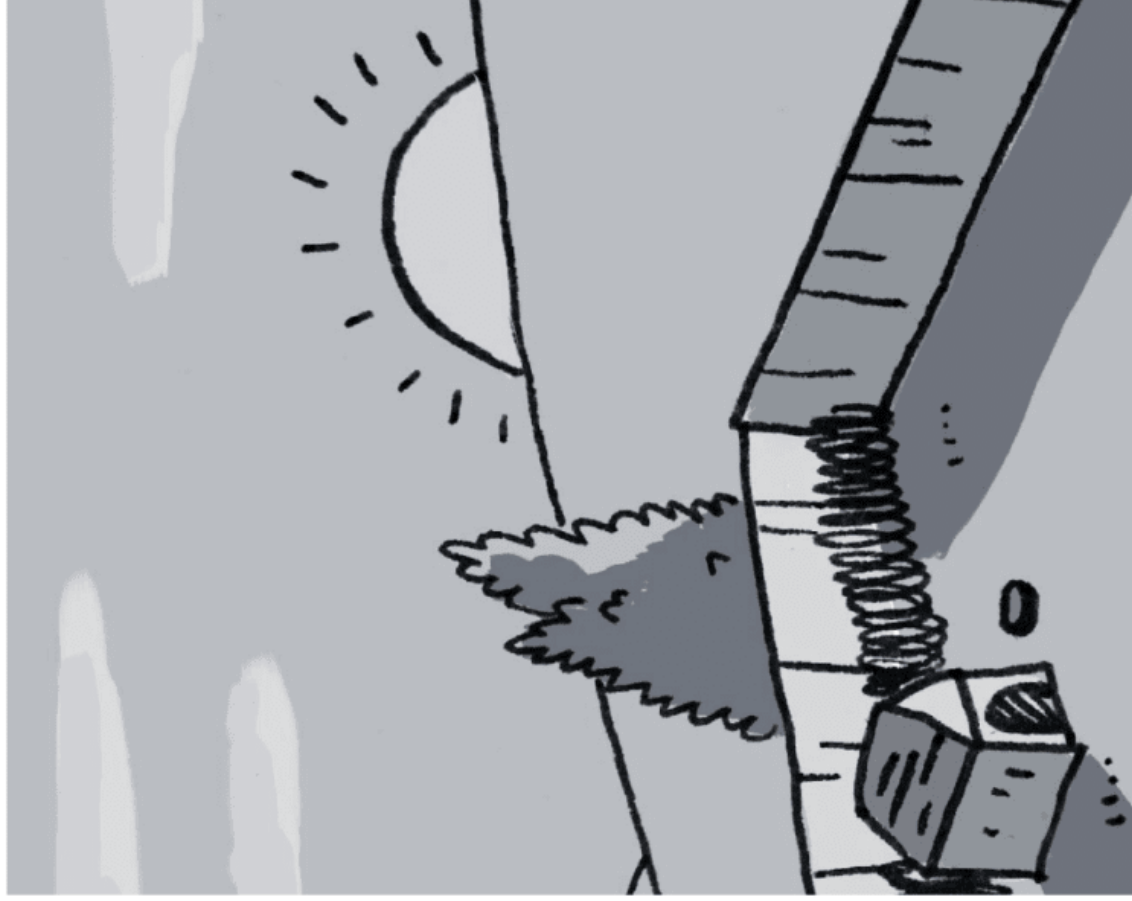


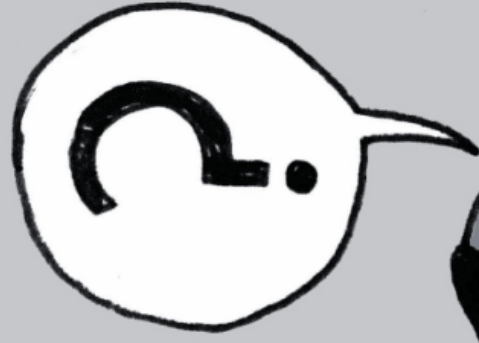
**mystery science**

Why do you have to go  
to bed early in the summer?

Here comes  
the sun.

Time to wake  
up!





“The sun is  
out,” I tell my  
mom. “Can  
Pete and I go  
play?”

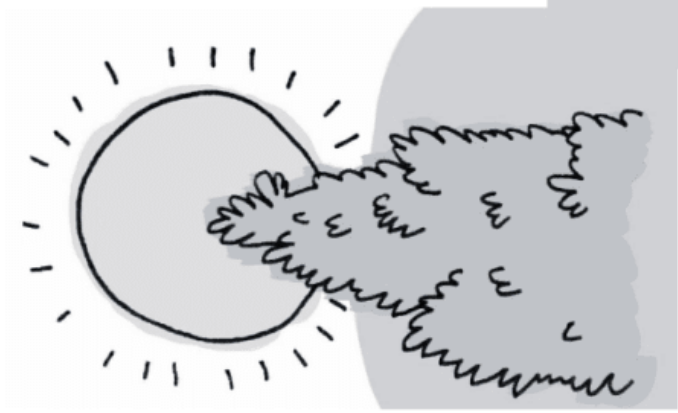
Pete and I play  
outside.

Pete runs in the  
grass.





Mom says,  
“Time for  
lunch!”

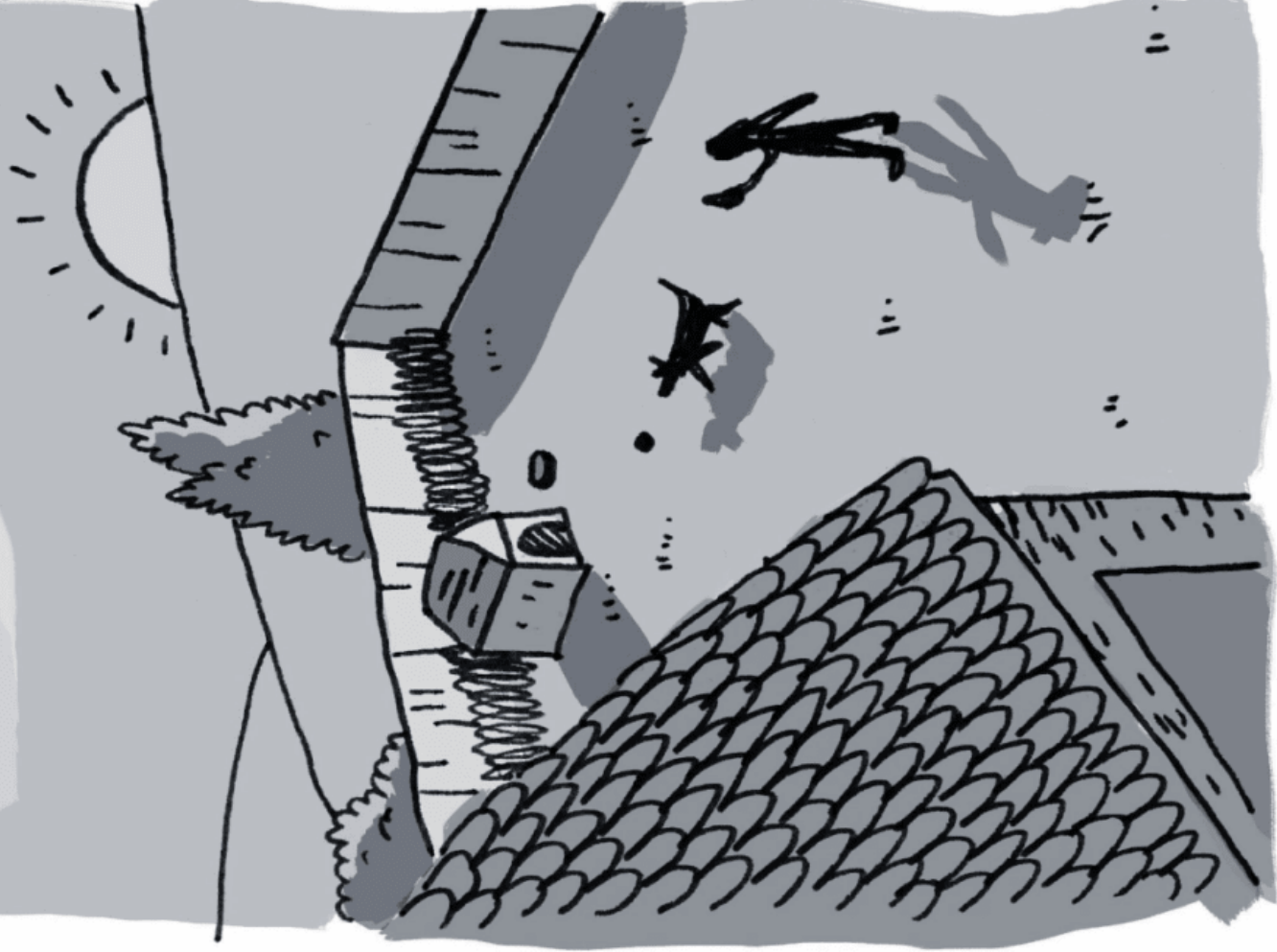


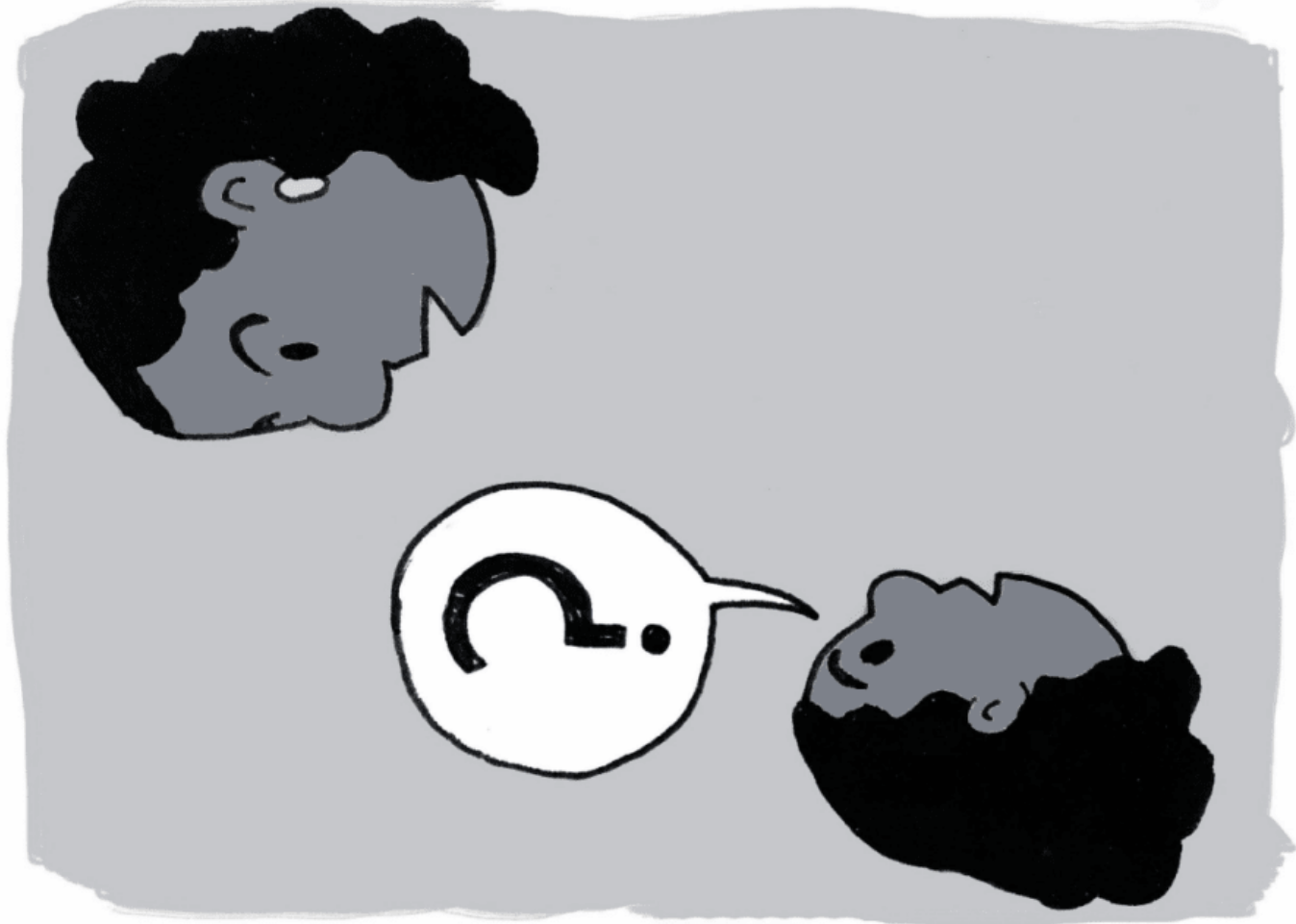
I eat my  
lunch.

I drink my  
milk.



I run back out  
to play!





“It’s getting  
late,” Mom  
says.

“It is?” I ask

“But it’s not  
dark outside.”

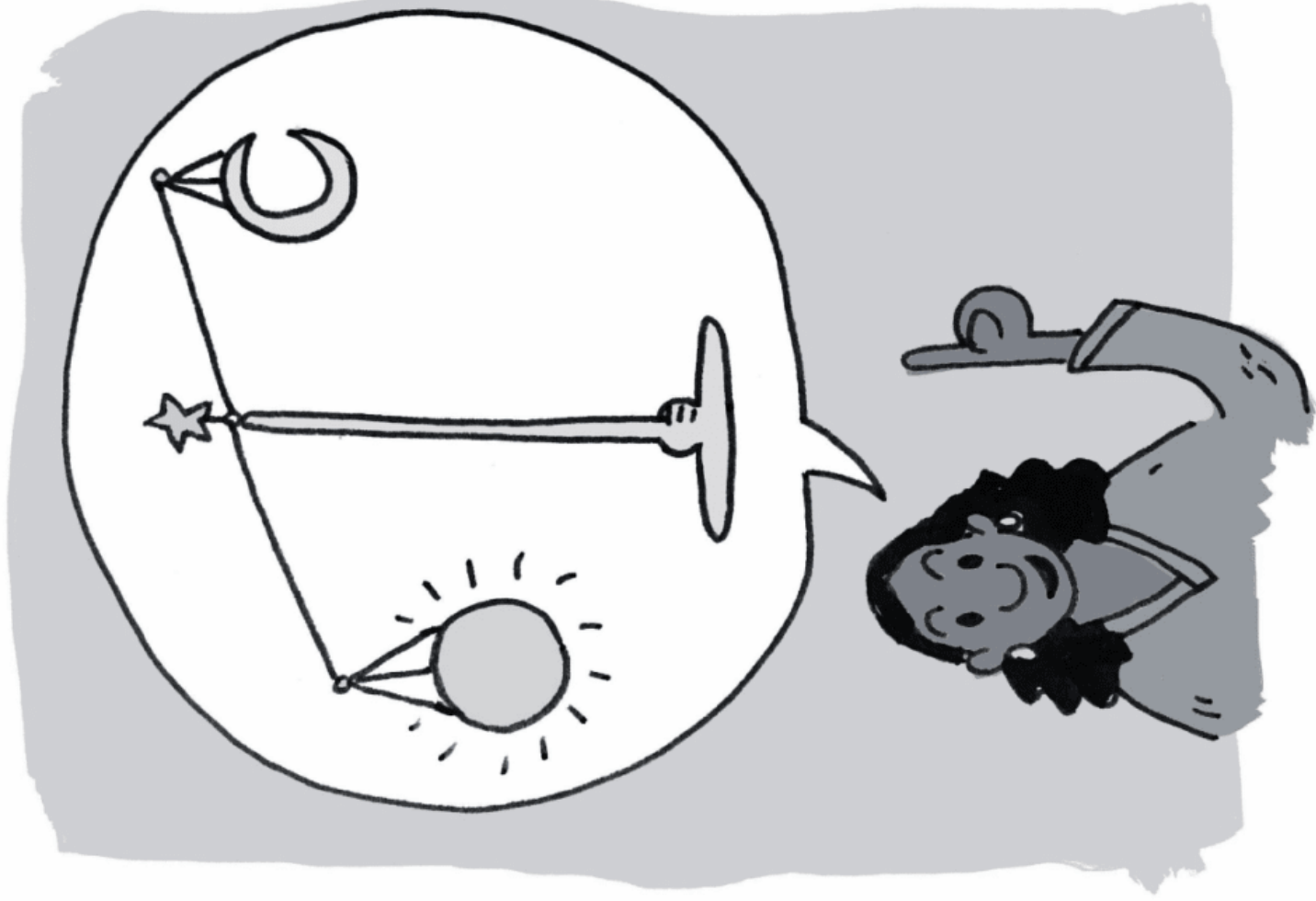


“Summer days  
are long.”



“In winter, the  
sun sets  
early. It’s dark  
at bedtime.”

“In summer,  
the sun rises  
early and sets  
late. We have  
more hours of  
sunshine.”





“The summer days are longer! But your bedtime is the same!”





I eat my  
dinner.



I brush my  
teeth.



I read my  
book.

“I guess it is  
bedtime after  
all.”



Goodnight!





1st-Grade

Reader :-)



SUMMER  
SUNSHINE

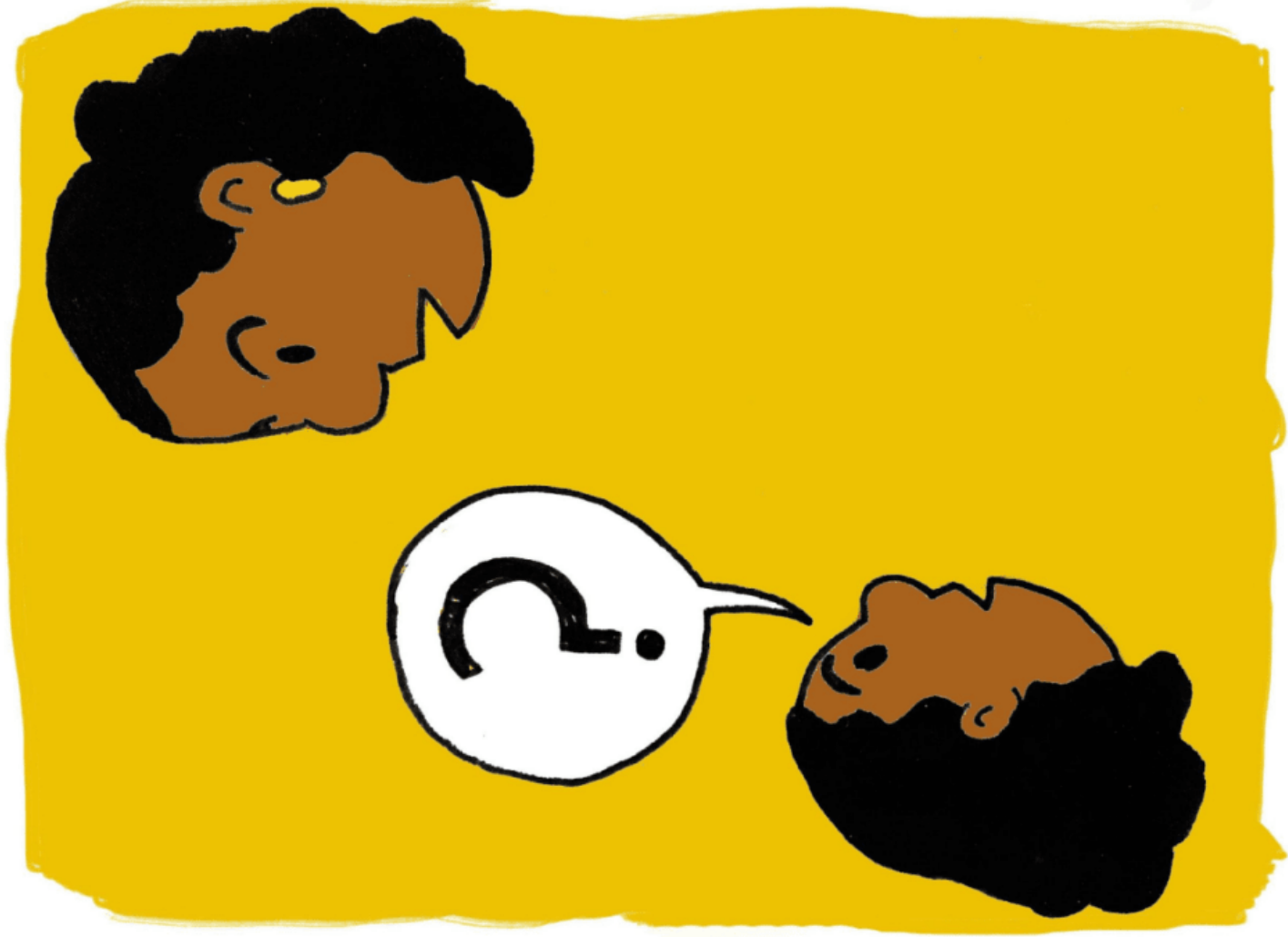
**mystery science**

Why do you have to go  
to bed early in the summer?

Here comes  
the sun.

Time to wake  
up!





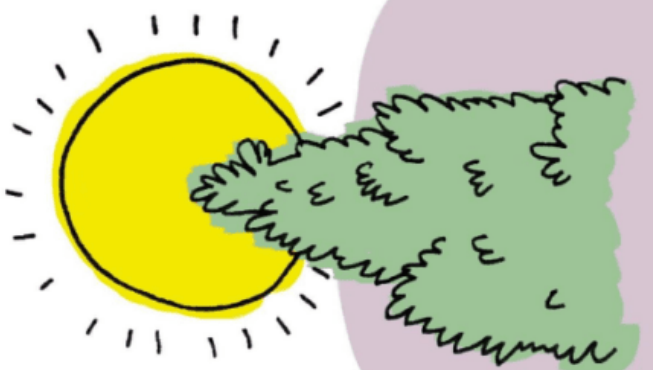
“The sun is  
out,” I tell my  
mom. “Can  
Pete and I go  
play?”

Pete and I play  
outside.

Pete runs in the  
grass.



Mom says,  
“Time for  
lunch!”



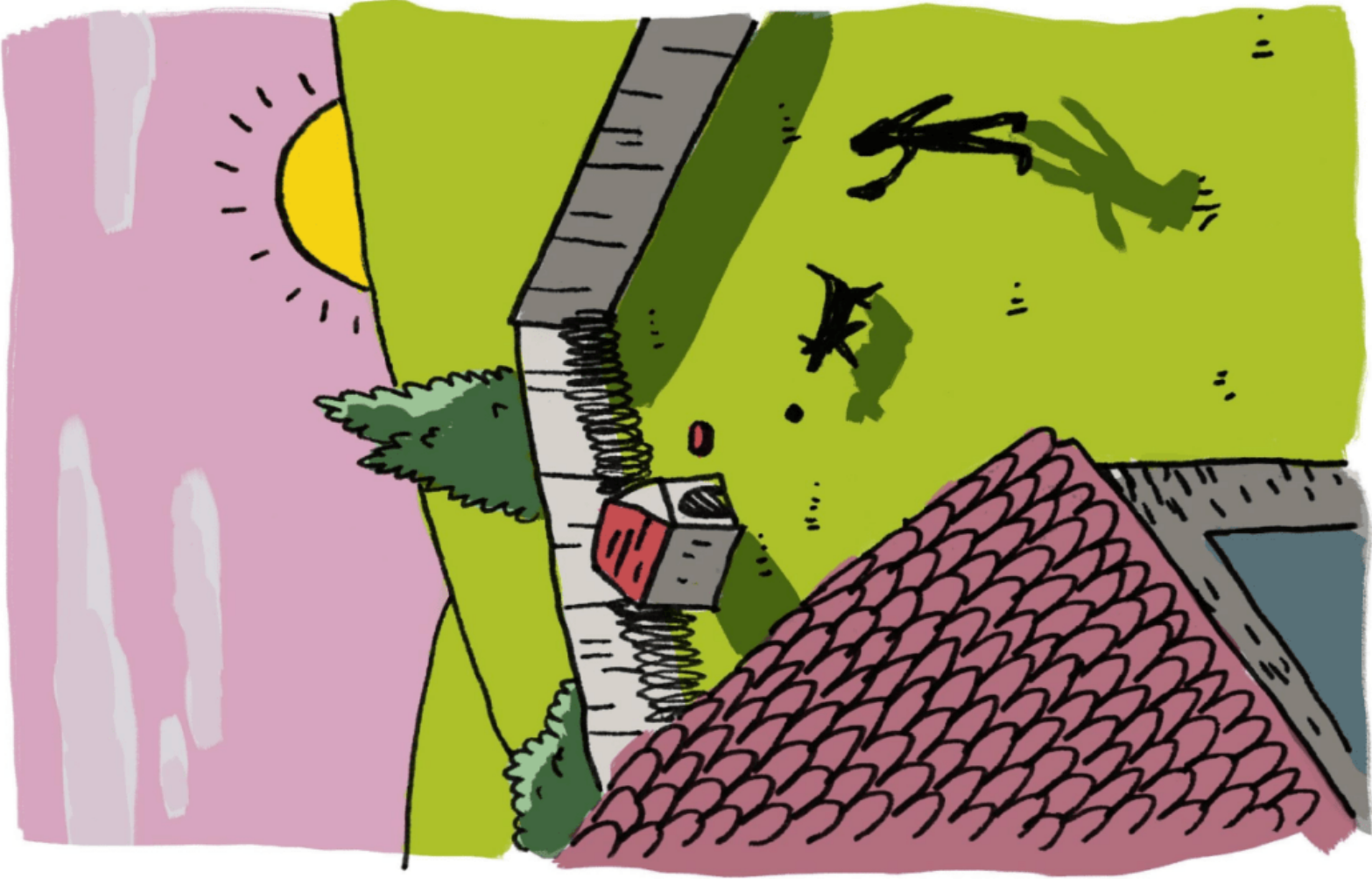


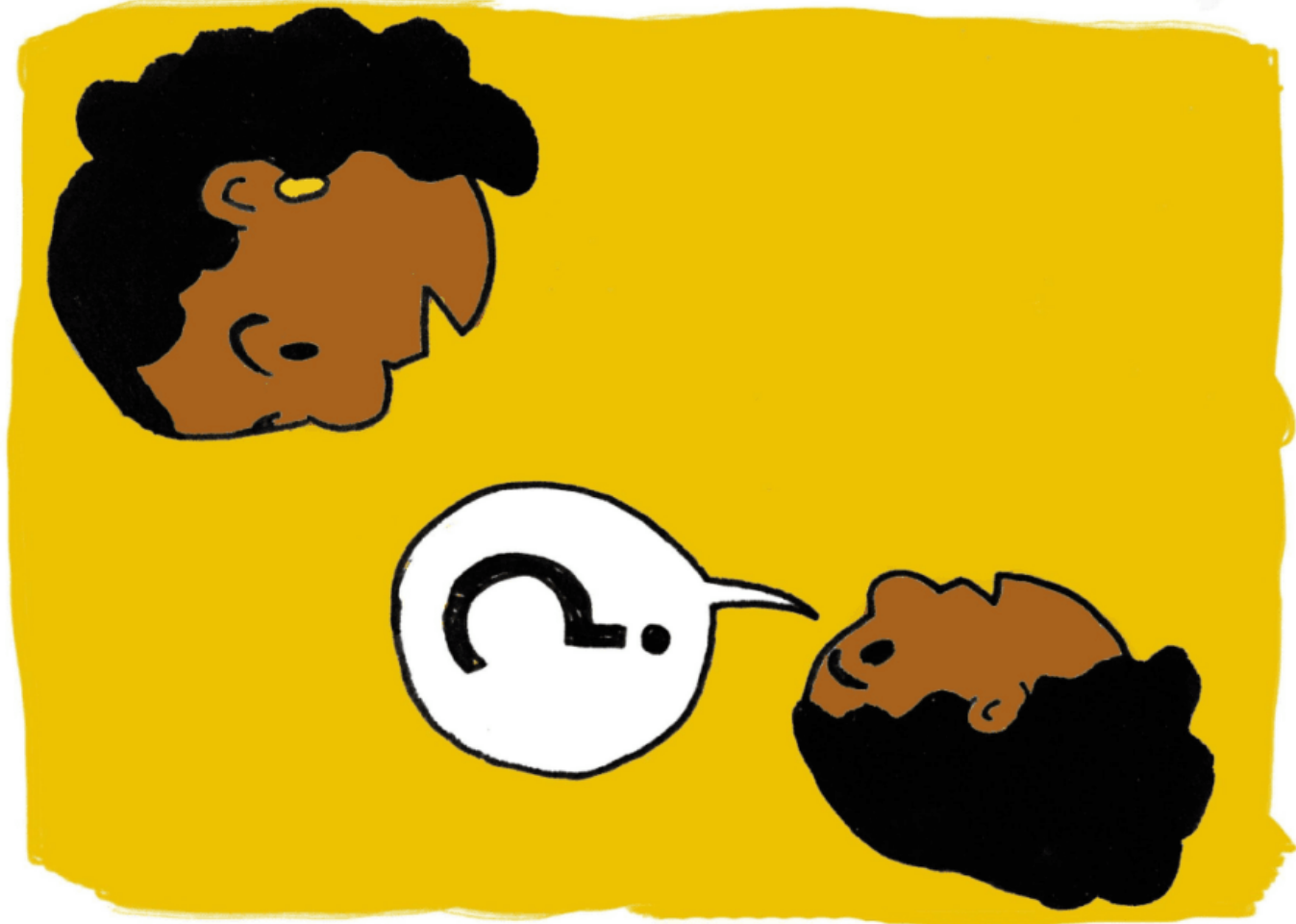
I eat my  
lunch.

I drink my  
milk.



I run back out  
to play!





“It’s getting  
late,” Mom  
says.

“It is?” I ask

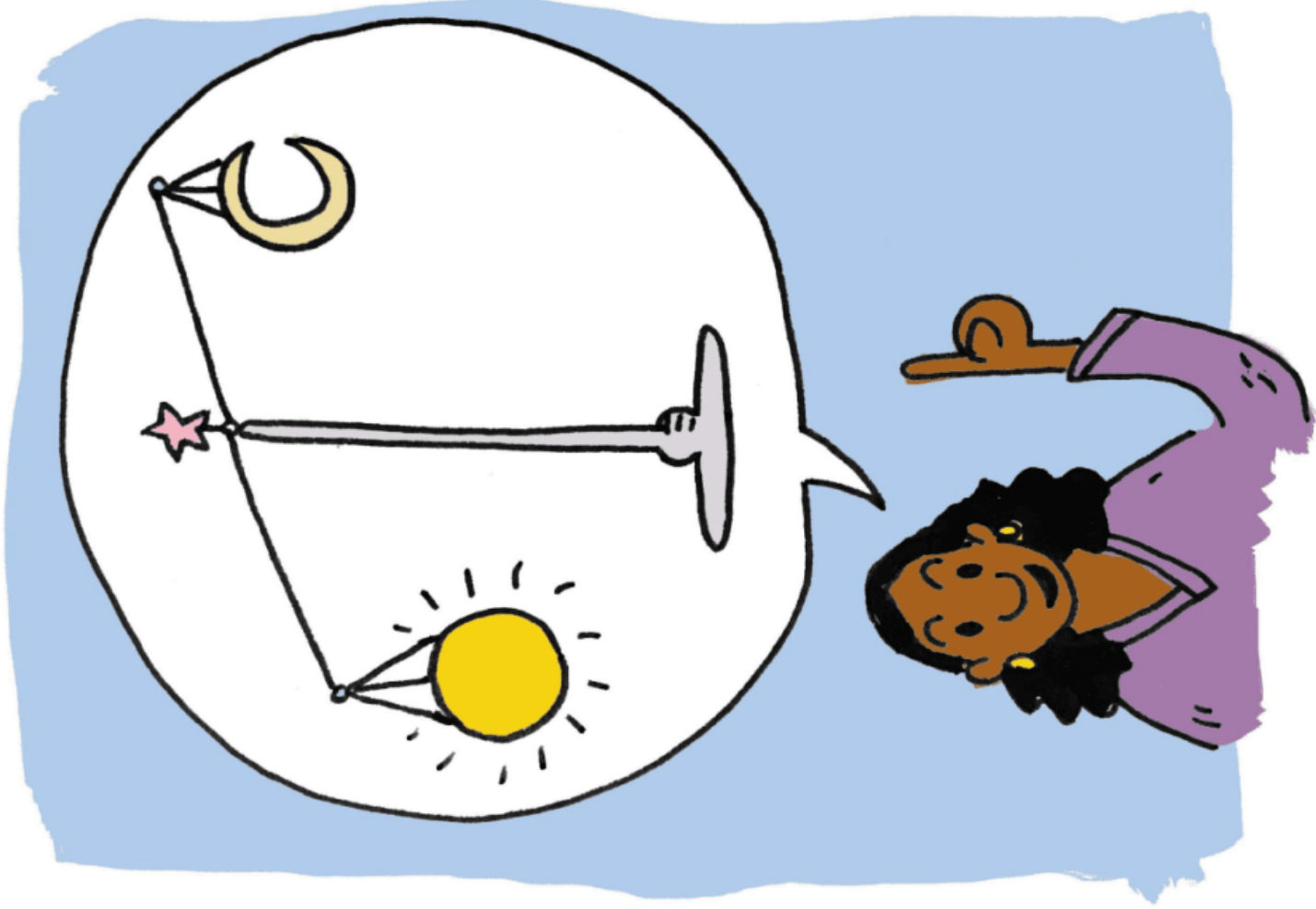
“But it’s not  
dark outside.”



“Summer days  
are long.”

“In winter, the  
sun sets  
early. It’s dark  
at bedtime.”





“In summer,  
the sun rises  
early and sets  
late. We have  
more hours of  
sunshine.”



“The summer days are longer! But your bedtime is the same!”



I eat my  
dinner.



I brush my  
teeth.



I read my  
book.



“I guess it is  
bedtime after  
all.”



Goodnight!

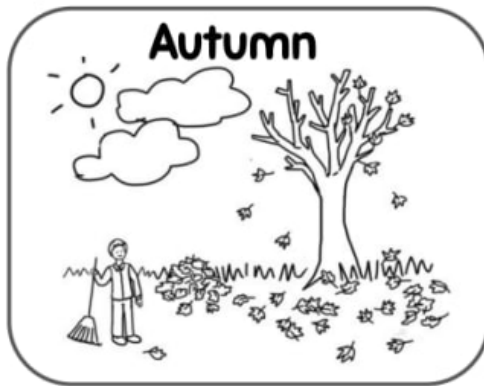


Name: \_\_\_\_\_

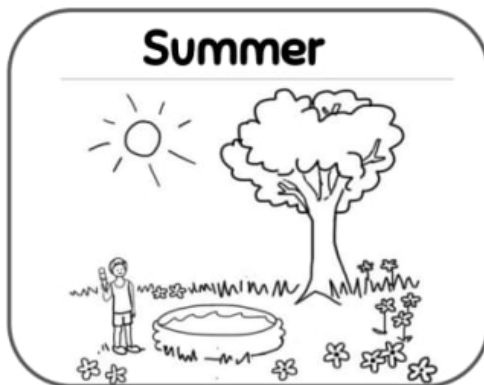
1. Match the season to how long the days are.



days are longest



days are shortest



days are medium

2. It feels like you go to bed early when the sun...

\_\_\_\_\_

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\_\_\_\_\_

# Where will the Sun be?

Name: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

1. Morning: time to play



2. Time for lunch



3. Evening: time to go

home



# Night Patterns

1st Grade • NGSS • Unit Worksheets

**Lesson 1**



When can you see the full moon?

**Lesson 2**



Why do stars come out at night?

**Lesson 3**



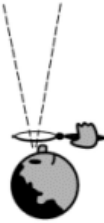


How can stars help you if you get lost?

I am also curious about...

# See-Think-Wonder Chart

**mystery science**

Name: \_\_\_\_\_

<p><b>See</b></p> <p>What did you observe?</p> 	<p><b>Think</b></p> <p>How can you explain what is happening?</p> 	<p><b>Wonder</b></p> <p>What questions do you have?</p> 

Moon Book by:

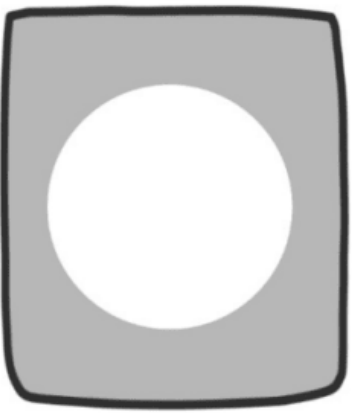
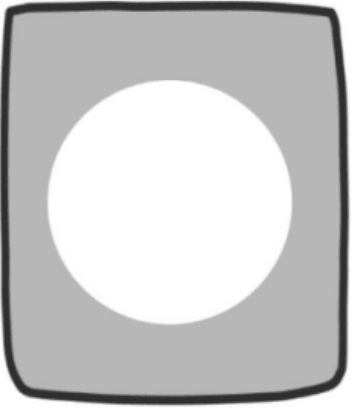
Four weeks

**MYSTERY** SCIENCE  
When can you see the full moon?

22	23	24	25	26	27	28
----	----	----	----	----	----	----

Days after full moon:

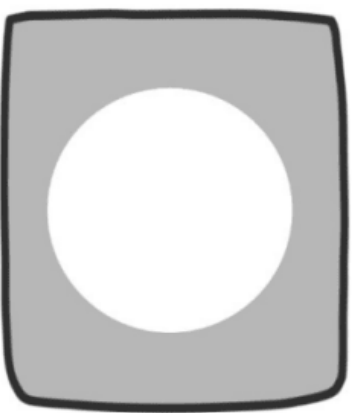
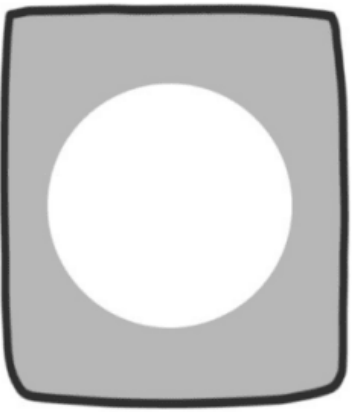
Full Moon



One week

Days after full moon:

Half Moon

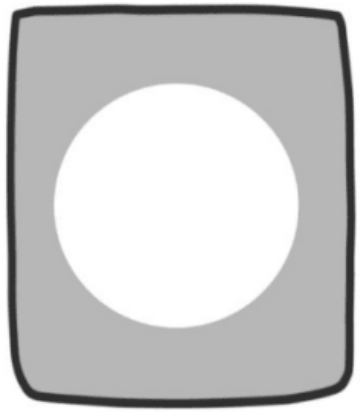
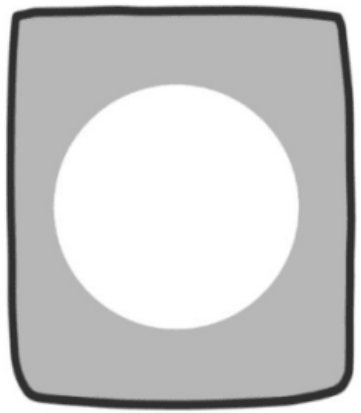


Days after full moon:

Crescent Moon

15	16	17	18	5	6	7
----	----	----	----	---	---	---

Half Moon



Days after full moon:

Days after full moon:

19	20	21
----	----	----

8	9	10	11	12	13	14
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Three weeks

Two weeks



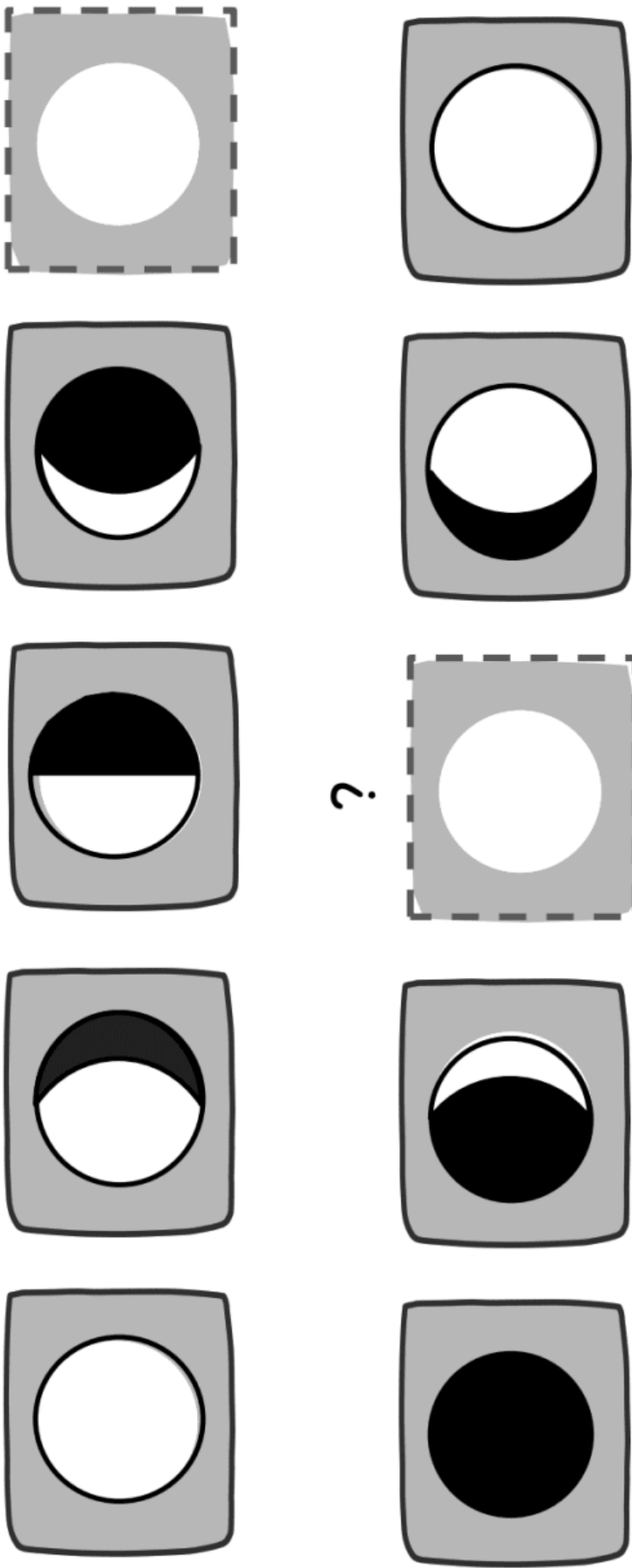
Name: \_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

1. Find the two boxes with dotted lines. Draw what you think the Moon's shape will look like to complete the pattern.









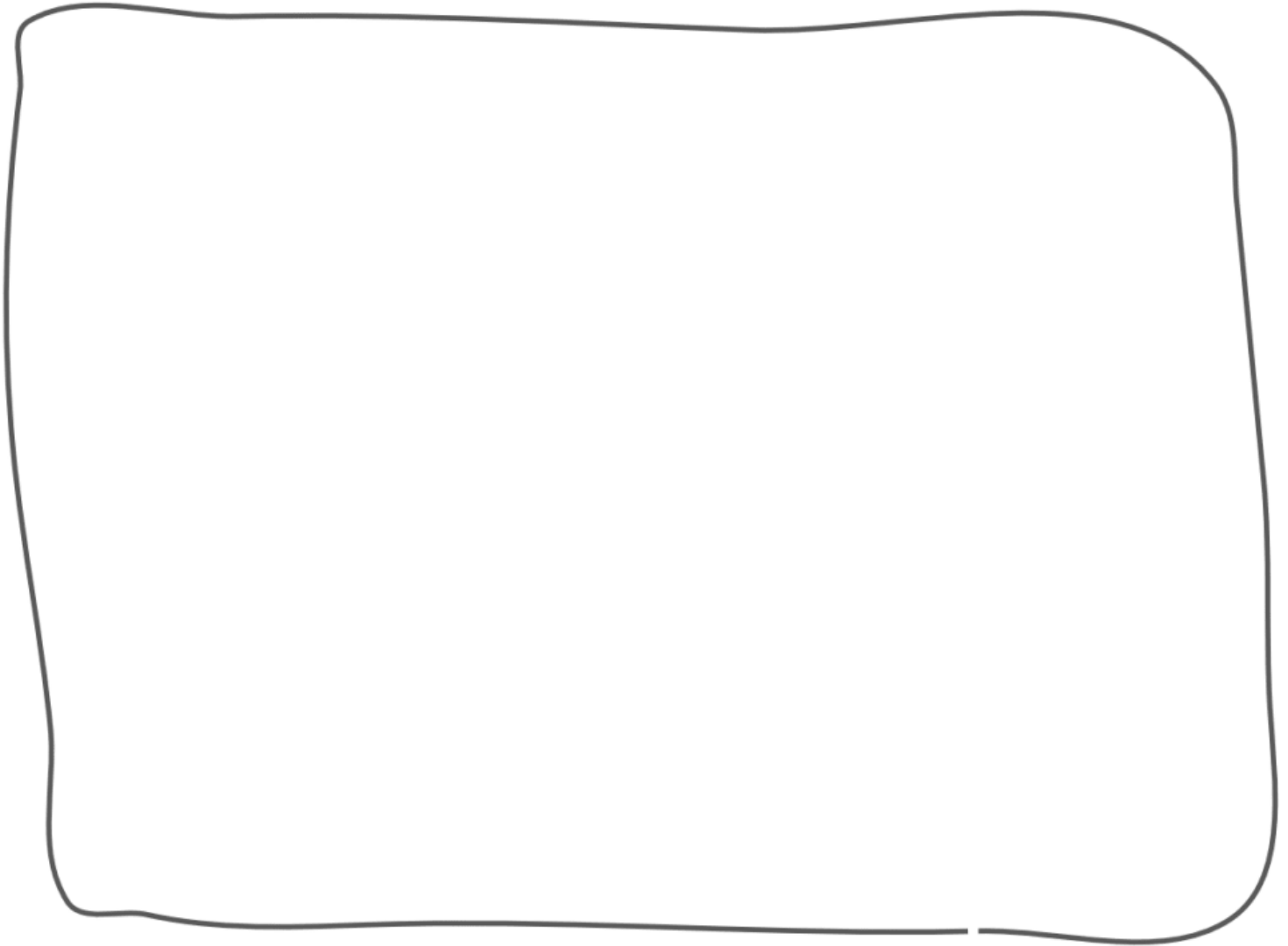
**mystery science**  
Why do the stars come out at night?

Name:

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Draw and write your ideas.

You can't see stars in the daytime because...

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Name: \_\_\_\_\_

1. Draw how to find the North Star using the pattern of stars in the Big Dipper.



2. The “Big Dipper” gets its name because...

\_\_\_\_\_

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\_\_\_\_\_

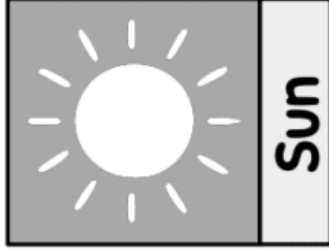
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\_\_\_\_\_

Name: \_\_\_\_\_

What can I see in  
the sky?


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\_\_\_\_\_



# Light, Sound, & Communication

1st Grade • NGSS • Unit Worksheets

**Lesson 1**



How do they make silly sounds in cartoons?

**Lesson 2**



Where do sounds come from?

**Lesson 3**



What if there were no windows?

**Lesson 4**



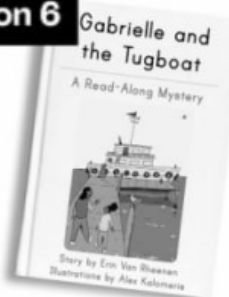
Can you see in the dark?

**Lesson 5**



How could you send a secret message to someone far away?

**Lesson 6**



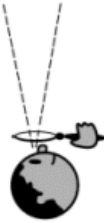


How do boats find their way in the fog?

I am also curious about...

# See-Think-Wonder Chart

**mystery science**

Name: \_\_\_\_\_

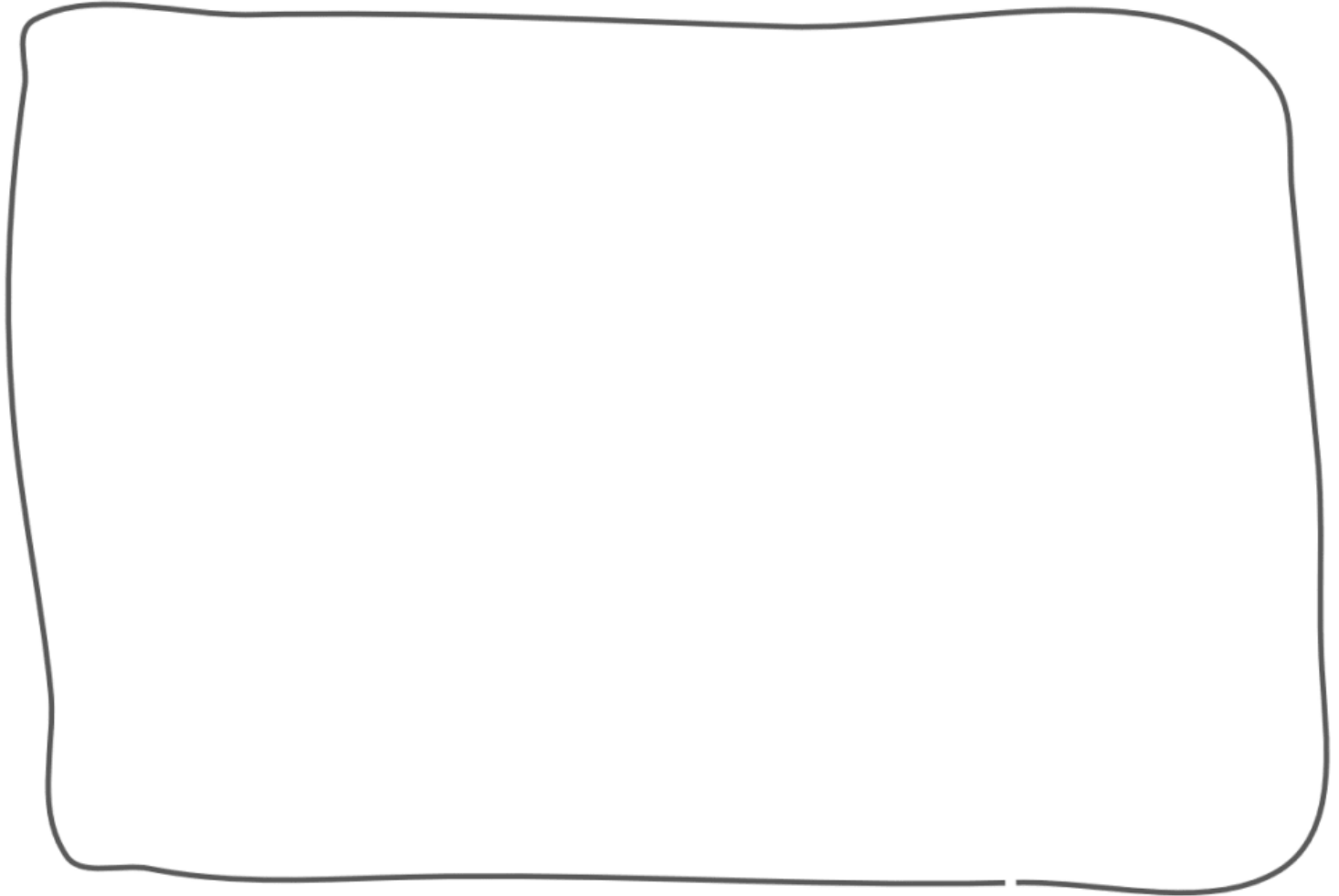
<p><b>See</b></p> <p>What did you observe?</p> 	<p><b>Think</b></p> <p>How can you explain what is happening?</p> 	<p><b>Wonder</b></p> <p>What questions do you have?</p> 

Name:

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Draw and write your ideas.

Two ways people make sounds for cartoons are...

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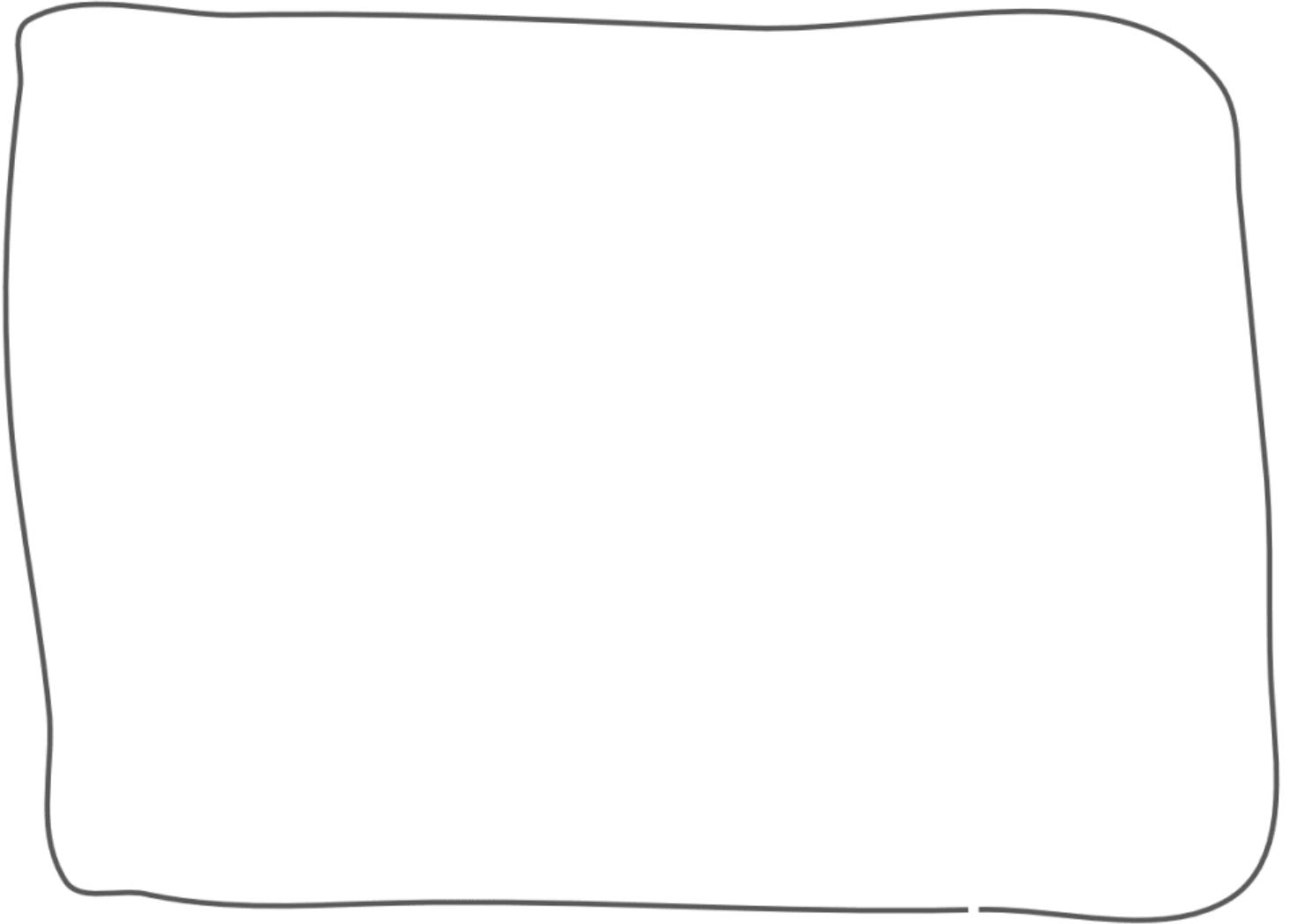
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Name: \_\_\_\_\_

1. Draw a musical instrument making sounds.



2. The instrument makes sounds by...

\_\_\_\_\_

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\_\_\_\_\_

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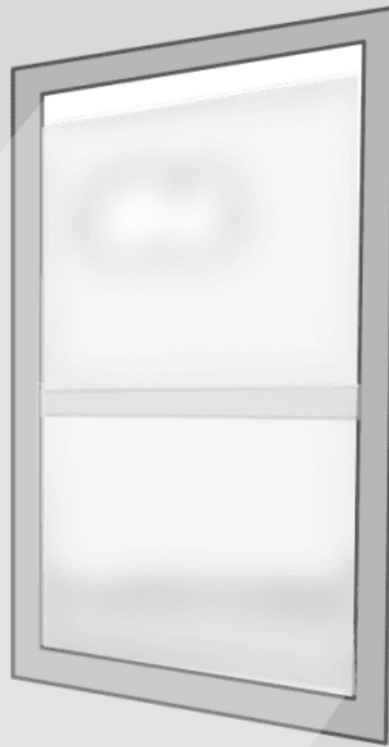
\_\_\_\_\_

see through



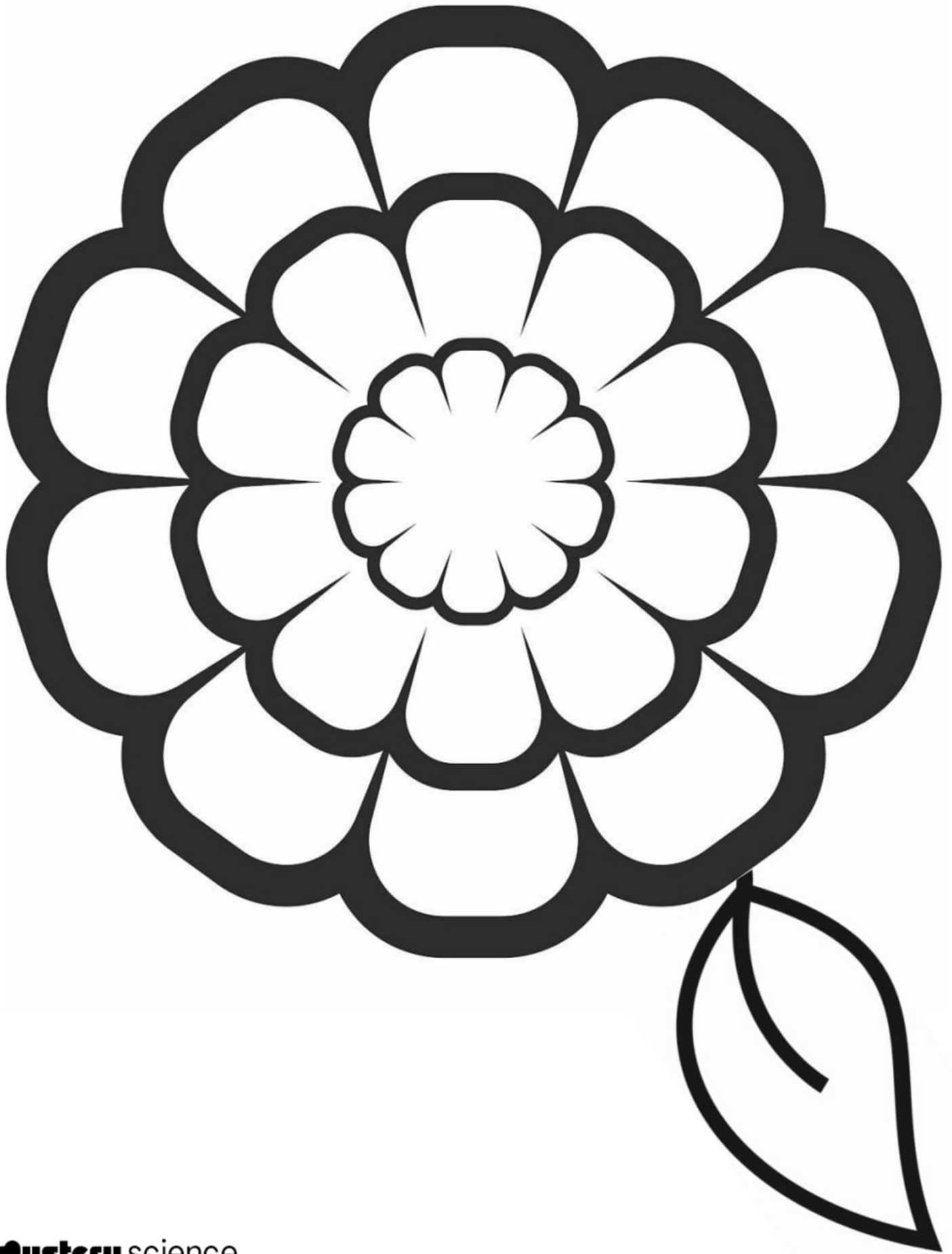
kind of

see through



not see through



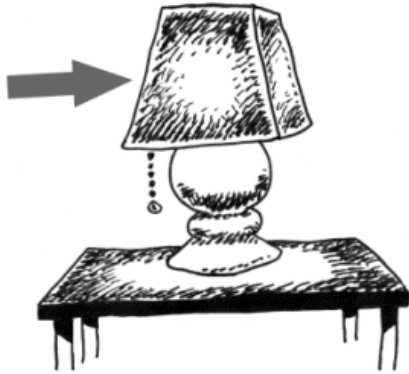


**mystery** science

What if there were no windows?

Name: \_\_\_\_\_

1. Draw a line to match the picture to the word.



**transparent**  
(see-through)



**translucent**  
(kind of see-through)



**opaque**  
(not see-through)

2. If there were no transparent materials...

\_\_\_\_\_

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\_\_\_\_\_

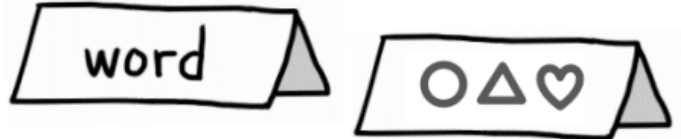
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\_\_\_\_\_

# How to Play "Dark Box"

1 Find someone to play with.

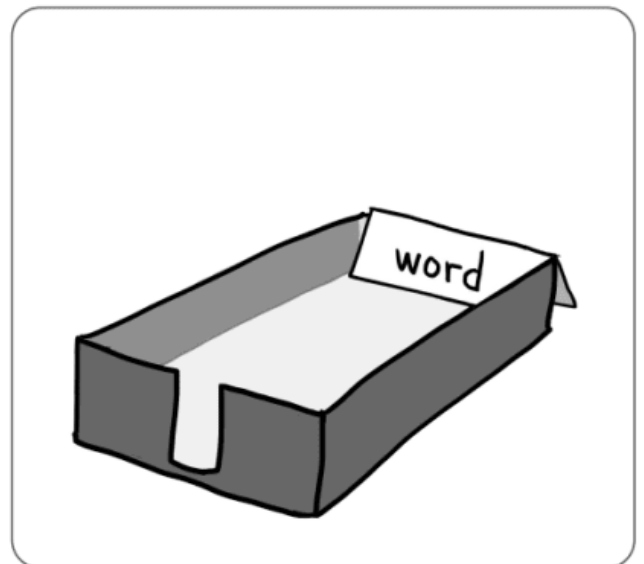
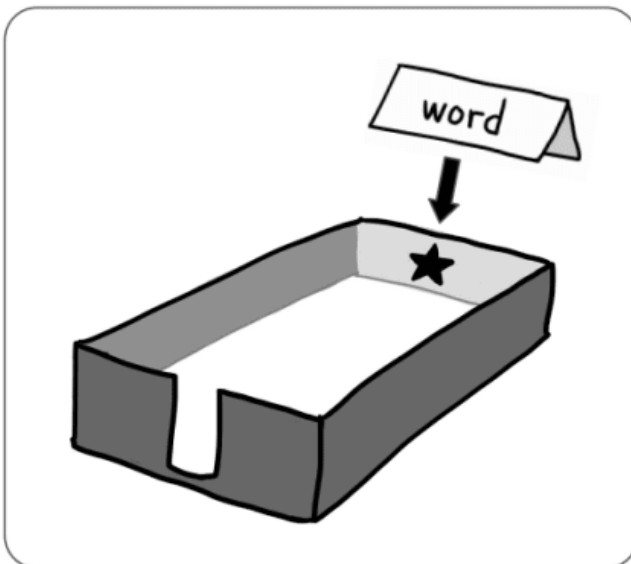
2 Pick a word or shape card.



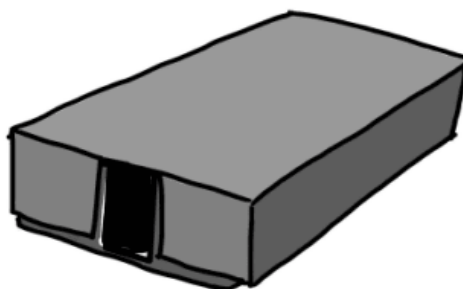
3 Don't show the other person.



4 Open the box. Put the card over the side with the star.



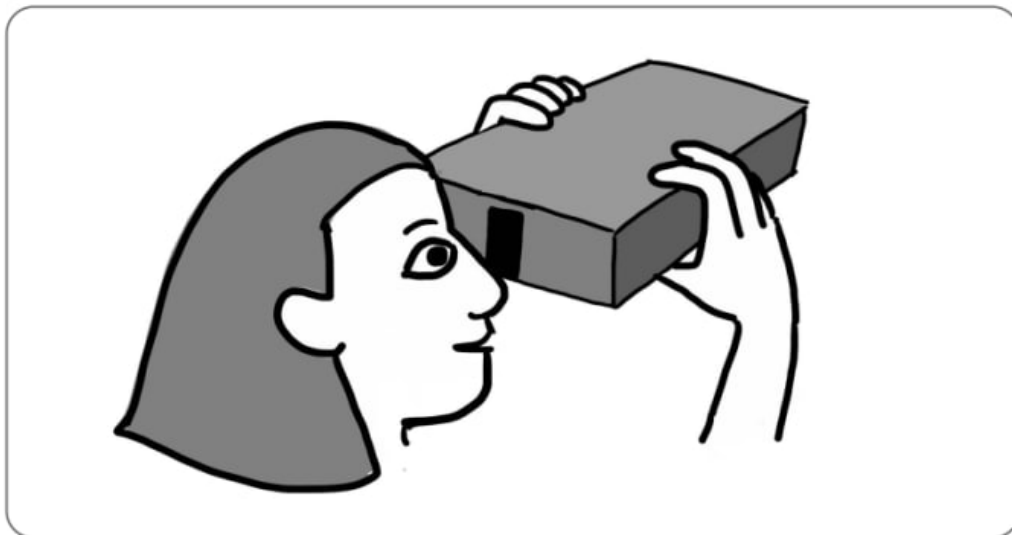
5 Close the box.



6

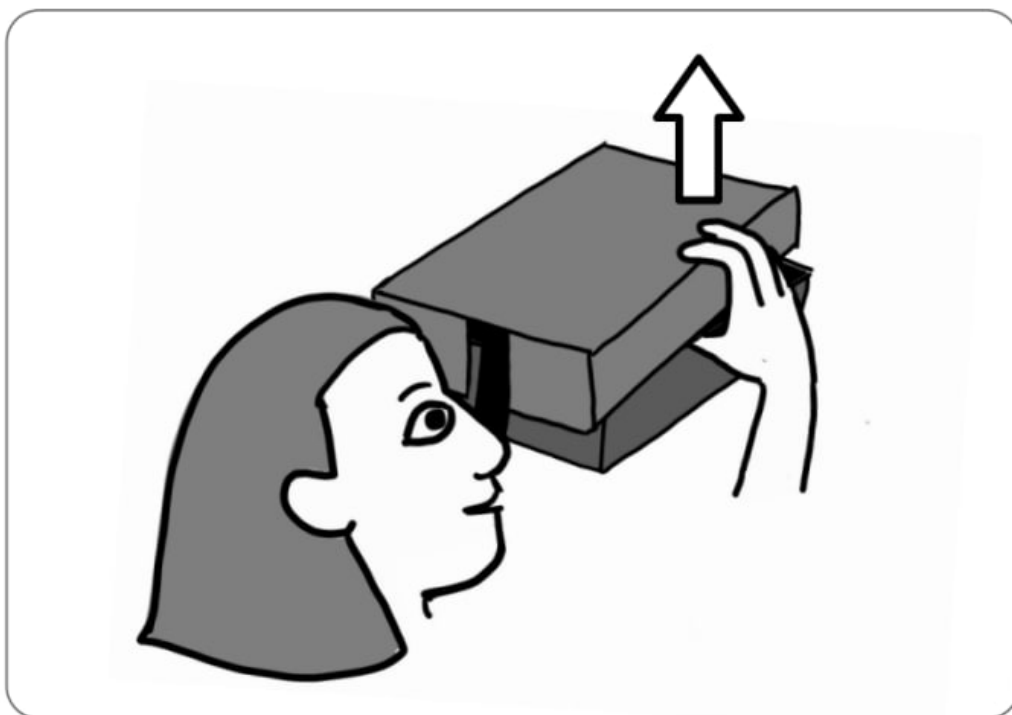
Give the box to the other person. Have the person look through the hole in the box.

What do they see?



7

Have them open the lid a little. What do they see now?



8






























Take turns and play again.




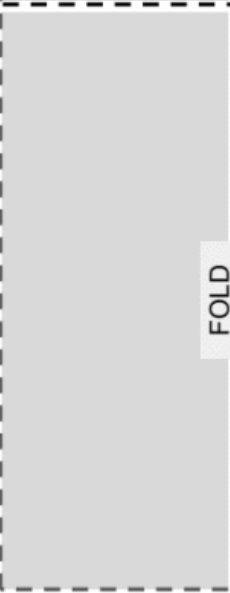



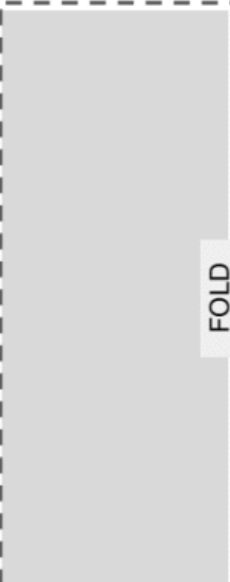




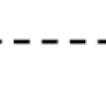

# INSTRUCTIONS:

**Cut and fold. Color the shapes different colors.**

The worksheet consists of a 3x3 grid of boxes. Each box is divided into two vertical sections by a dashed line labeled "FOLD". The left section of each box is shaded gray. The right section contains various shapes: triangles, hearts, and stars. Scissors icons are placed at the corners of the grid to indicate where to cut.

 FOLD 	 FOLD  	 FOLD   
 FOLD   	 FOLD 	 FOLD  
 FOLD  	 FOLD 	 FOLD   
		

# INSTRUCTIONS: Cut and fold.

  <p>FOLD</p>	  <p>FOLD</p>	  <p>FOLD</p>	  <p>FOLD</p>
<p>I am a cat.</p>	<p>I have a secret.</p>	<p>Can you see this?</p>	<p>Happy day!</p>
<p>You rock!</p>	<p>Look at this.</p>	<p>It is very dark.</p>	<p>Good job!</p>
			

Name: \_\_\_\_\_

1. Circle all the places light is coming from.



2. If light were not coming from any of those places, what would the driver see?

\_\_\_\_\_

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\_\_\_\_\_

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\_\_\_\_\_

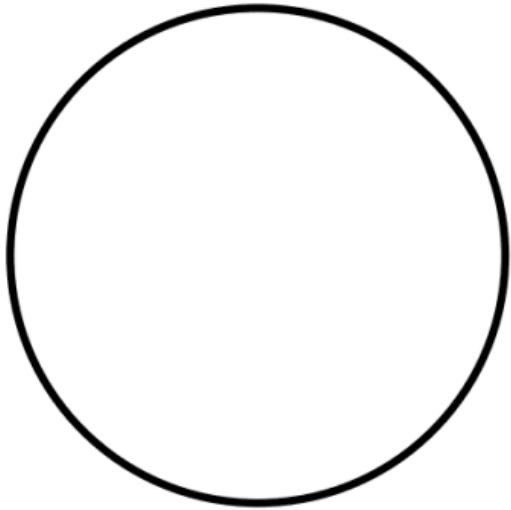
Name →

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# Color Codes

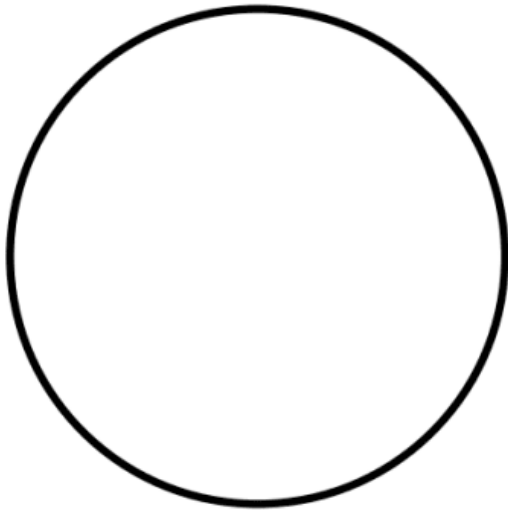


← What does this color mean?

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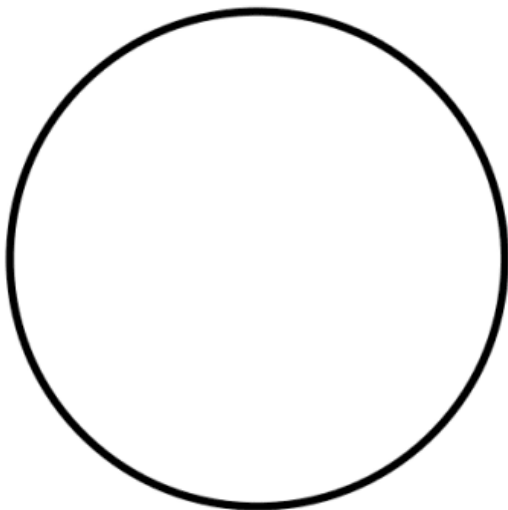


← What does this color mean?

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← What does this color mean?

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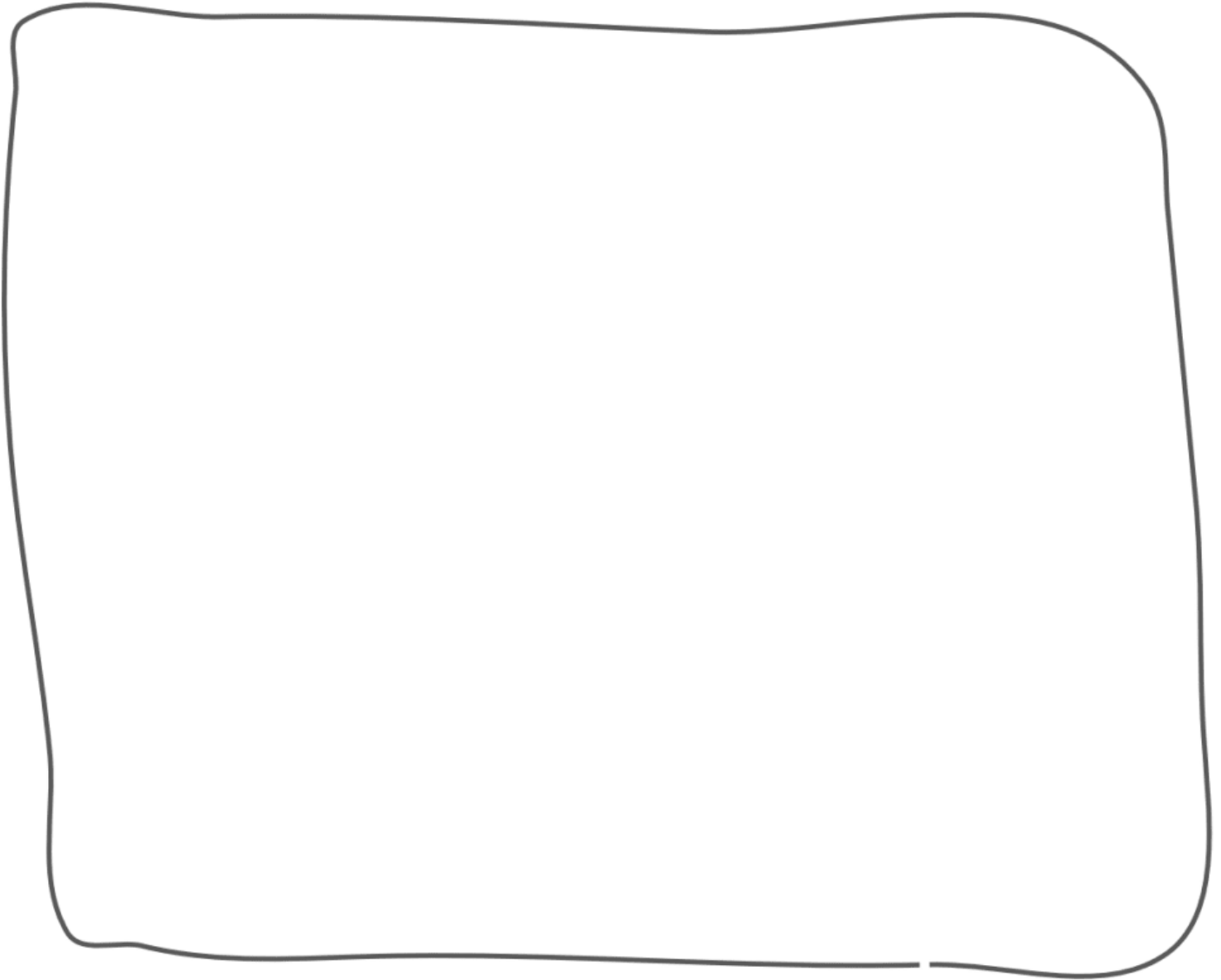
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Name:

\_\_\_\_\_

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\_\_\_\_\_



Draw and write your ideas.

One way to send a message with light is...

\_\_\_\_\_

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\_\_\_\_\_

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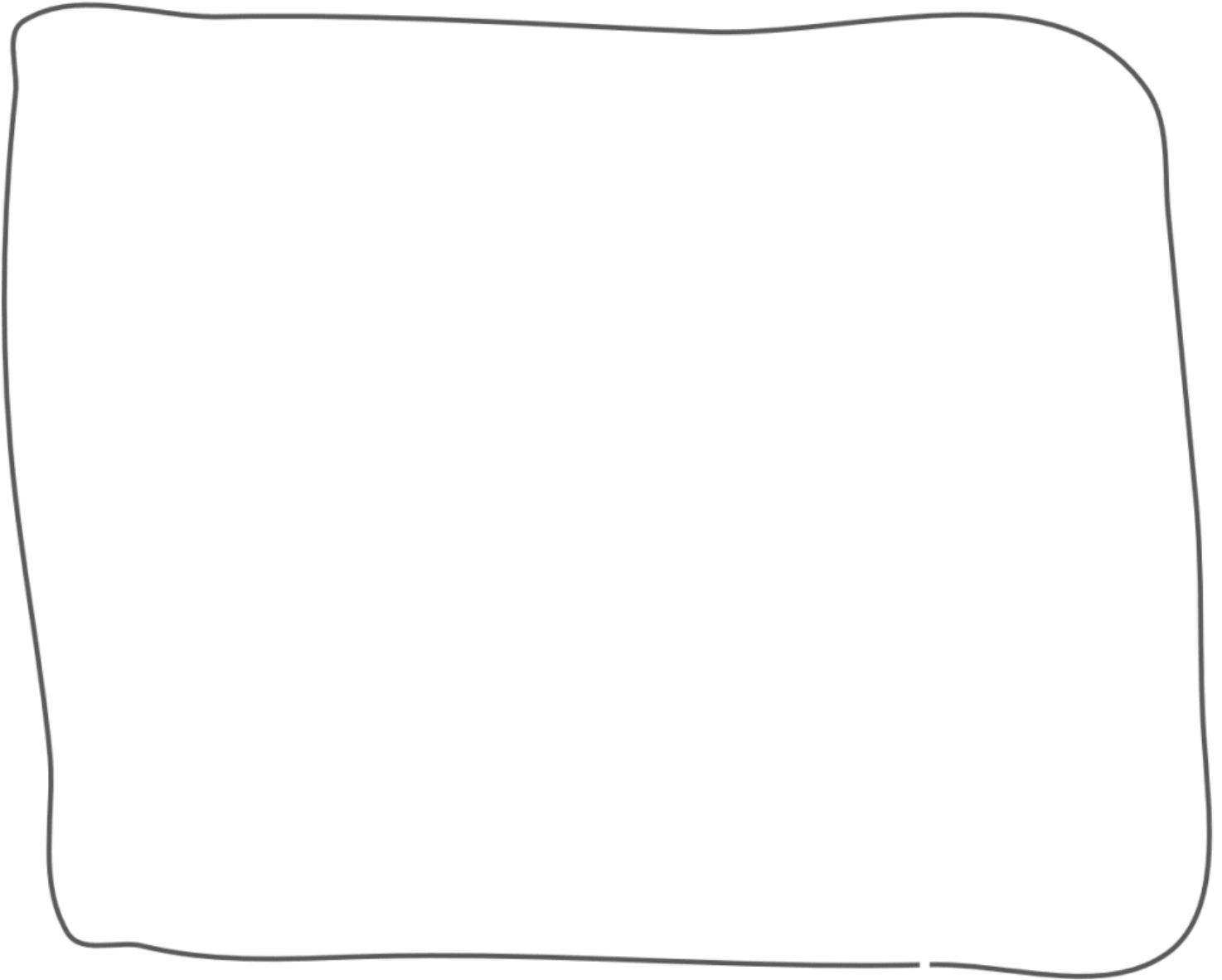
\_\_\_\_\_

Name:

\_\_\_\_\_

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\_\_\_\_\_



Draw and write your ideas.

One way to send a message with sound is...

\_\_\_\_\_

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\_\_\_\_\_

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\_\_\_\_\_

\_\_\_\_\_  
-----  
Name \_\_\_\_\_

# Everglades at Night

**effects:** see, hear

**causes:** vibrate, make light

I can \_\_\_\_\_ the alligators because



they \_\_\_\_\_.

I can't \_\_\_\_\_ the alligators because



they don't \_\_\_\_\_.

I can \_\_\_\_\_ the fireflies because



they \_\_\_\_\_.

I can't \_\_\_\_\_ the fireflies because



they don't \_\_\_\_\_.