

Name: _____

First Grade

Student Booklet

What are you curious about?



Animal Traits & Survival

1st Grade • NGSS • Unit Worksheets

Lesson 1



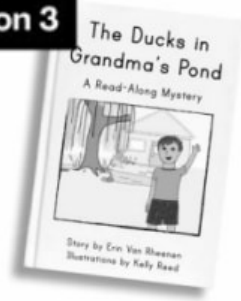
How can you help a lost baby animal find its parents?

Lesson 2



Can you predict what an animal's babies will look like?

Lesson 3



Why do baby ducks follow their mother?

Lesson 4



Why do birds have beaks?

Lesson 5



Why are polar bears white?

I am also curious about...

Color a squirrel

mystery science
Animal Superpowers | Anchor Layer

color test
square 1



color test
square 2



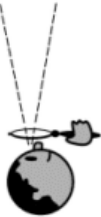
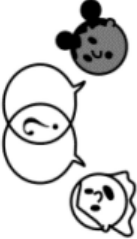
color test
square 3



See-Think-Wonder Chart

mystery science

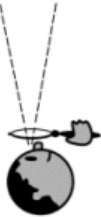
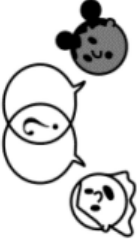
Name: _____

See What did you observe? 	Think How can you explain what is happening? 	Wonder What questions do you have? 

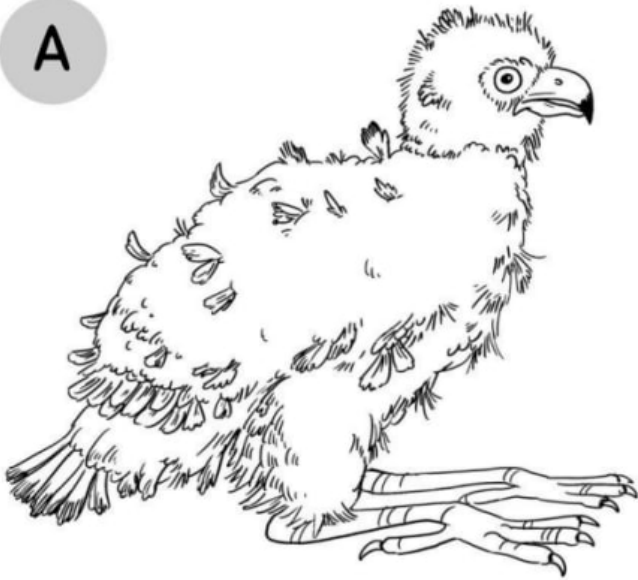
See-Think-Wonder Chart

mystery science

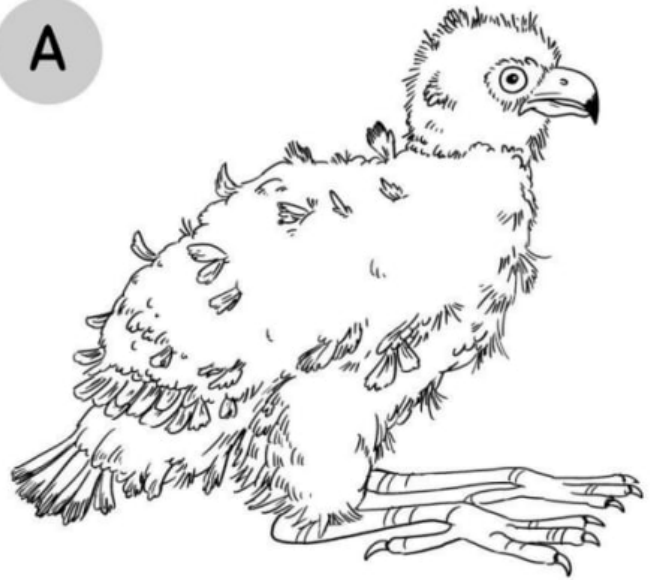
Name: _____

See What did you observe? 	Think How can you explain what is happening? 	Wonder What questions do you have? 

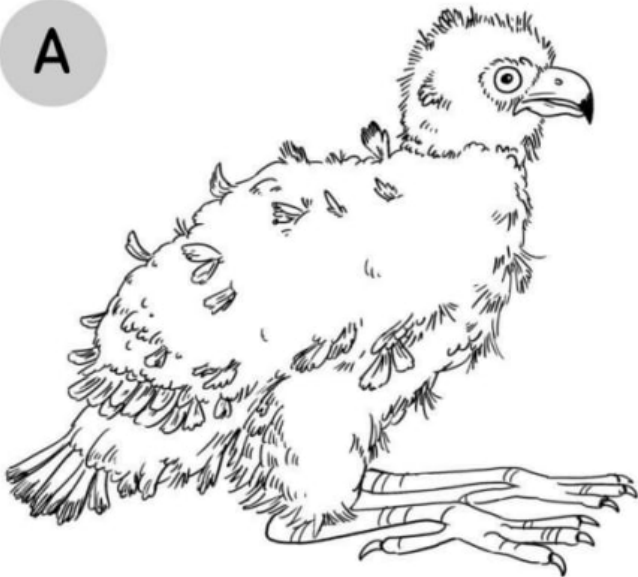
A



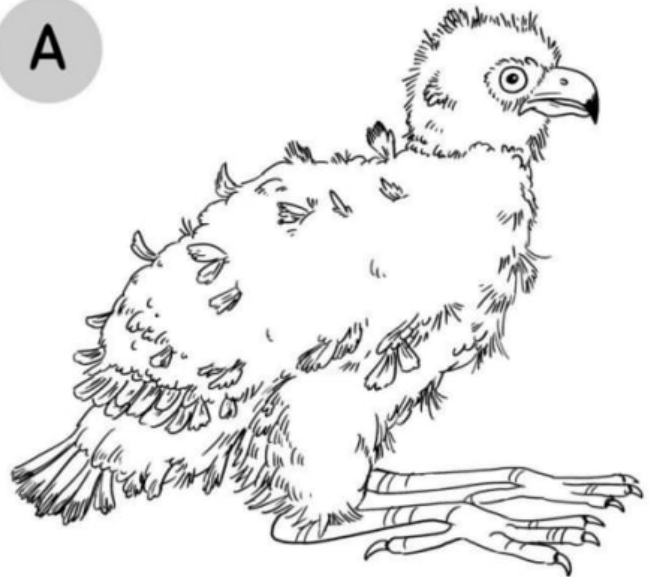
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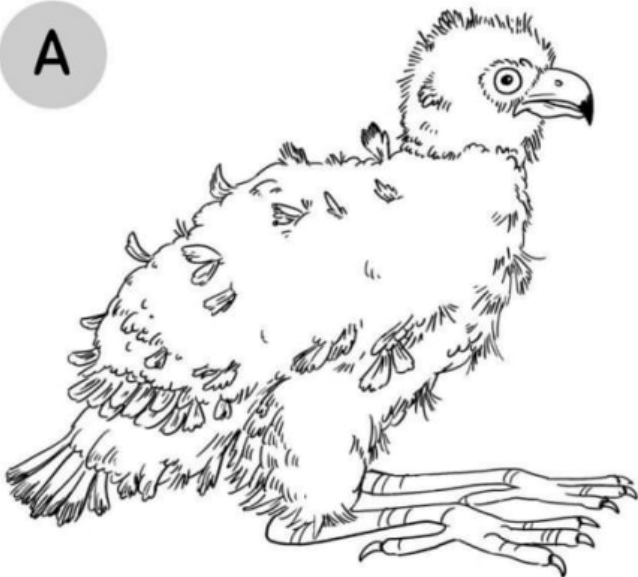
A



A



A



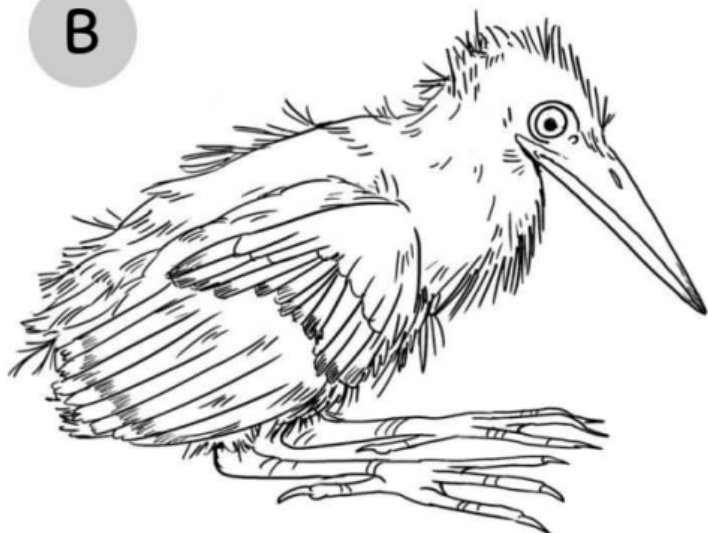
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mystery science

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

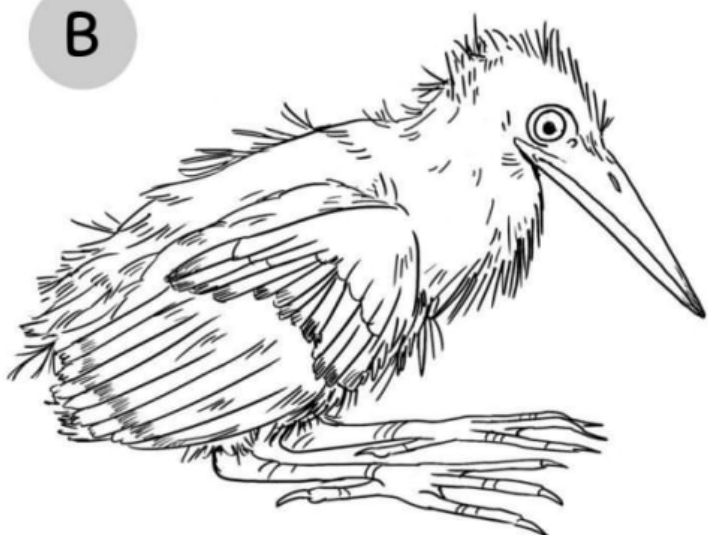
B



B



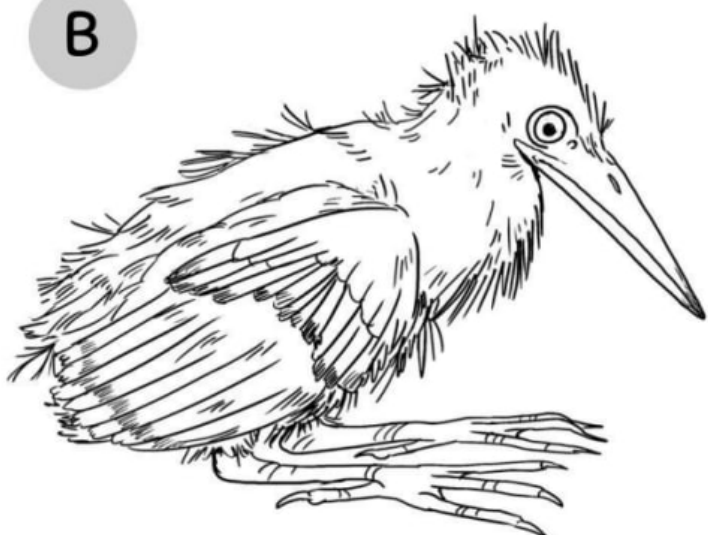
B



B



B



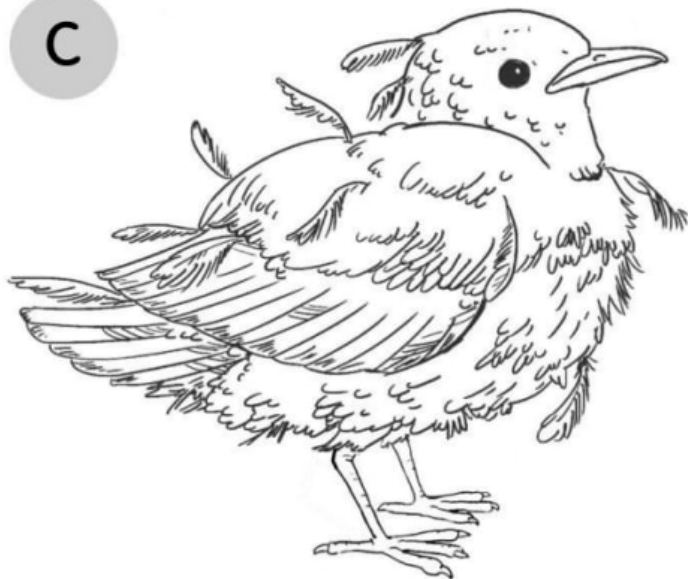
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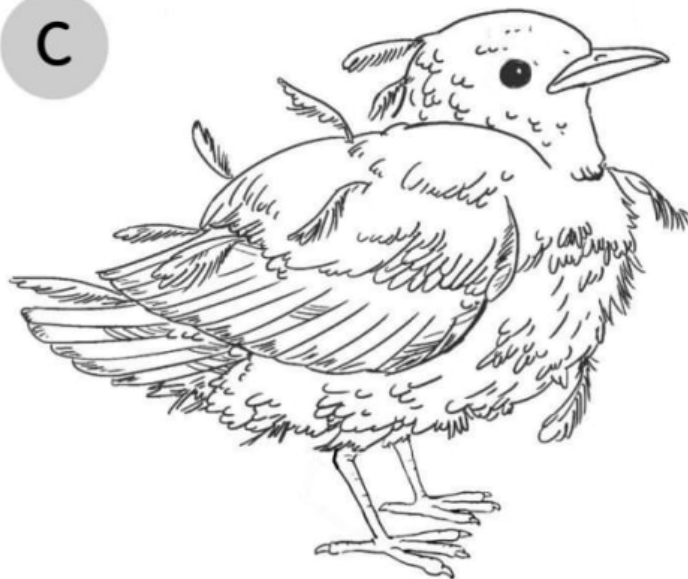
mystery science

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

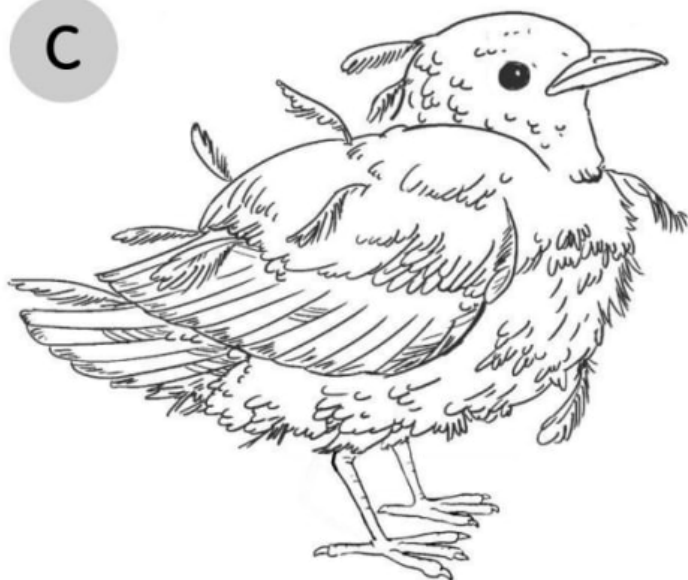
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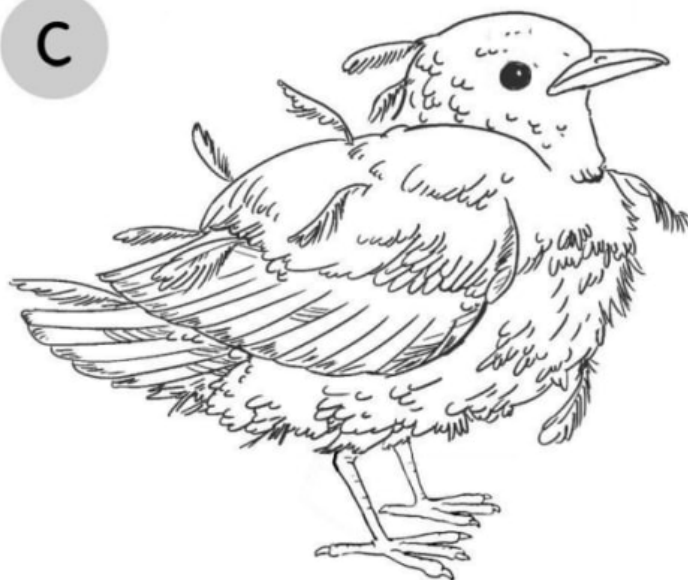
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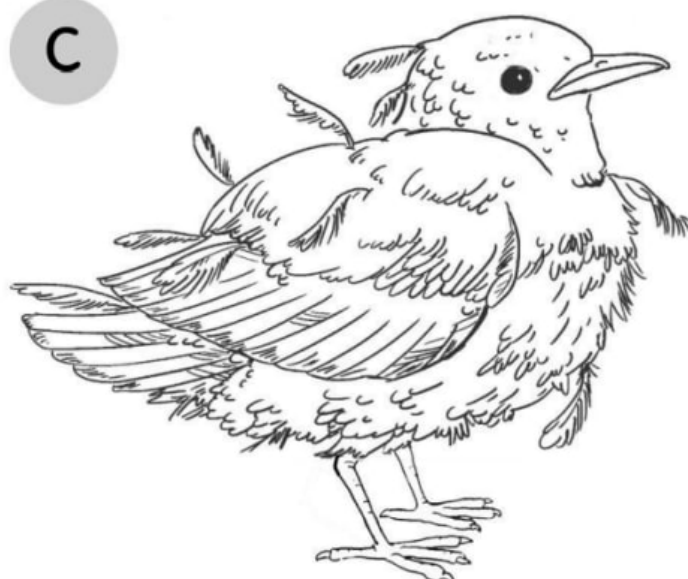
C



C



C



C



mystery science

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

Name: _____

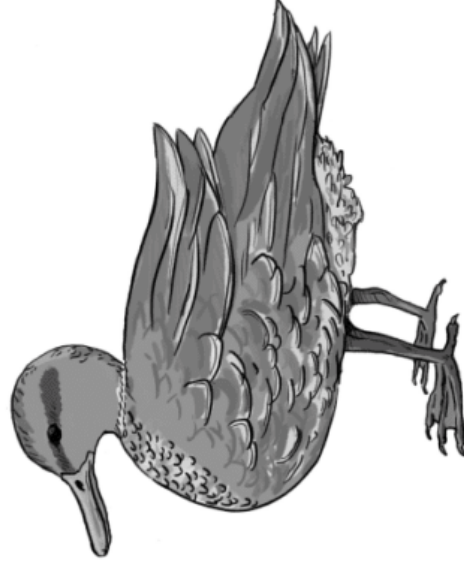
Draw an arrow between the baby and the adult bird that is its parent. Circle all the traits that helped you match them.



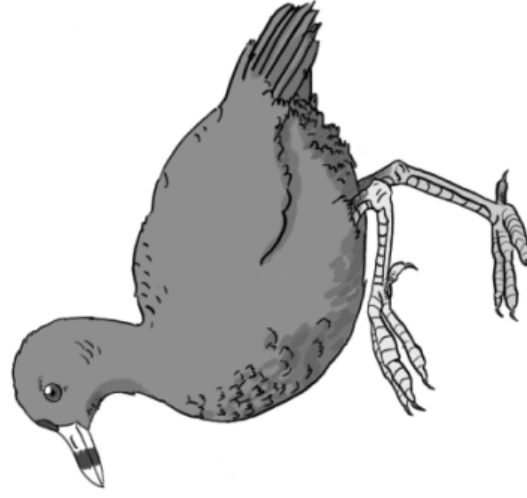
Baby Bird



Adult #1



Adult #2



Adult #3

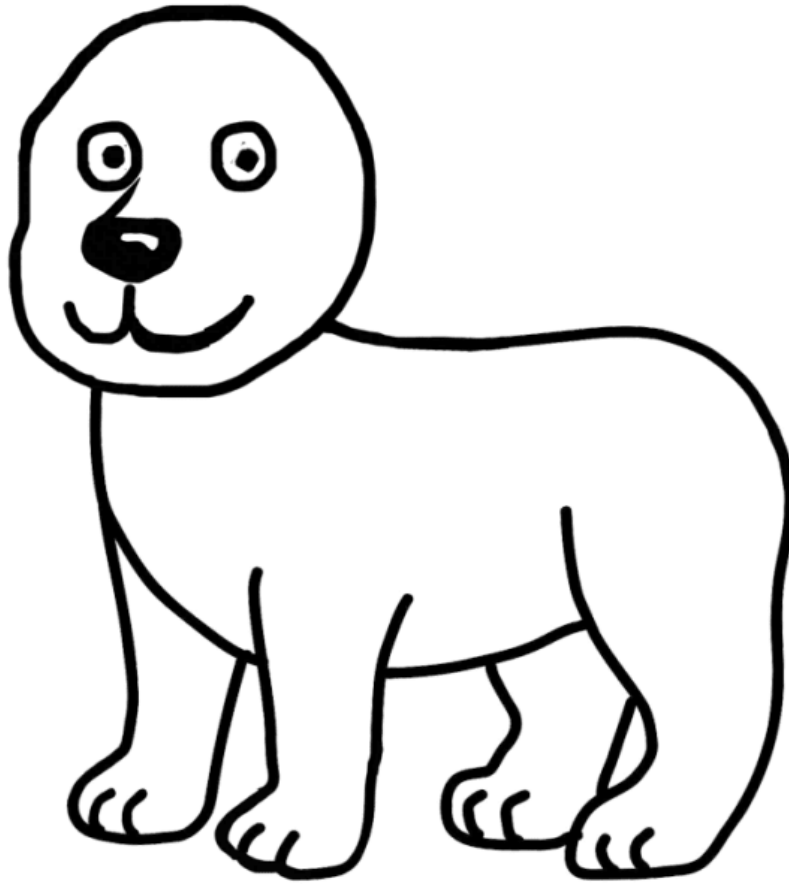
mystery science

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

Possible Puppy

mystery science Can you predict what an animal's babies will look like?

Name: _____



Puppy's name: _____

My possible puppy looks:

a lot like dad

a lot like mom

a bit like dad and a bit like mom

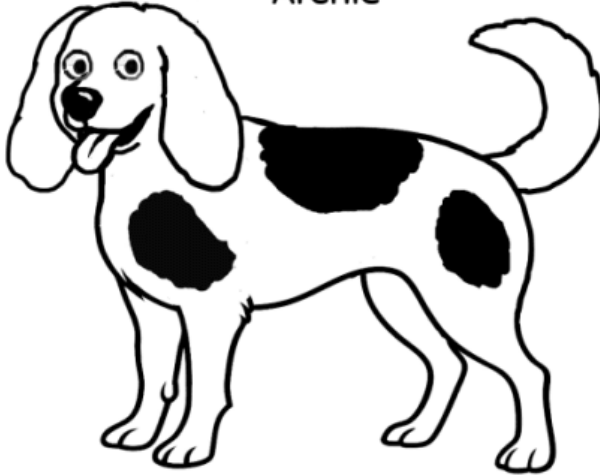
Puppy Parents

mystery science Can you predict what an animal's babies will look like?

Name: _____

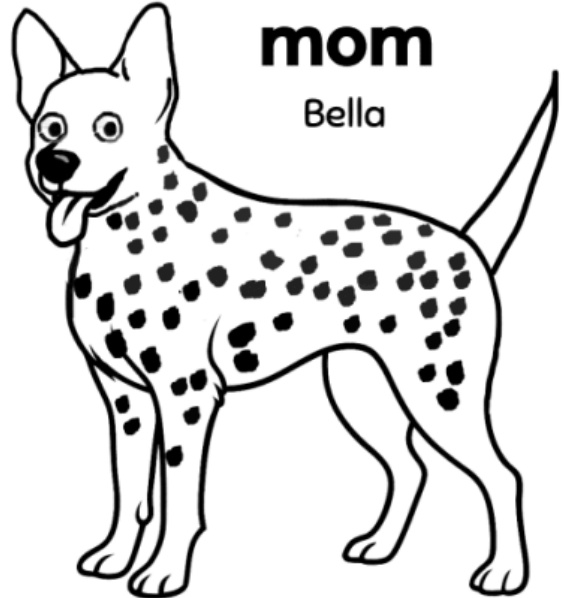
dad

Archie



mom

Bella



Ears



floppy



pointy

Tail



curly



straight

Eyes



brown



blue

Fur



yellow



brown

Spots



big

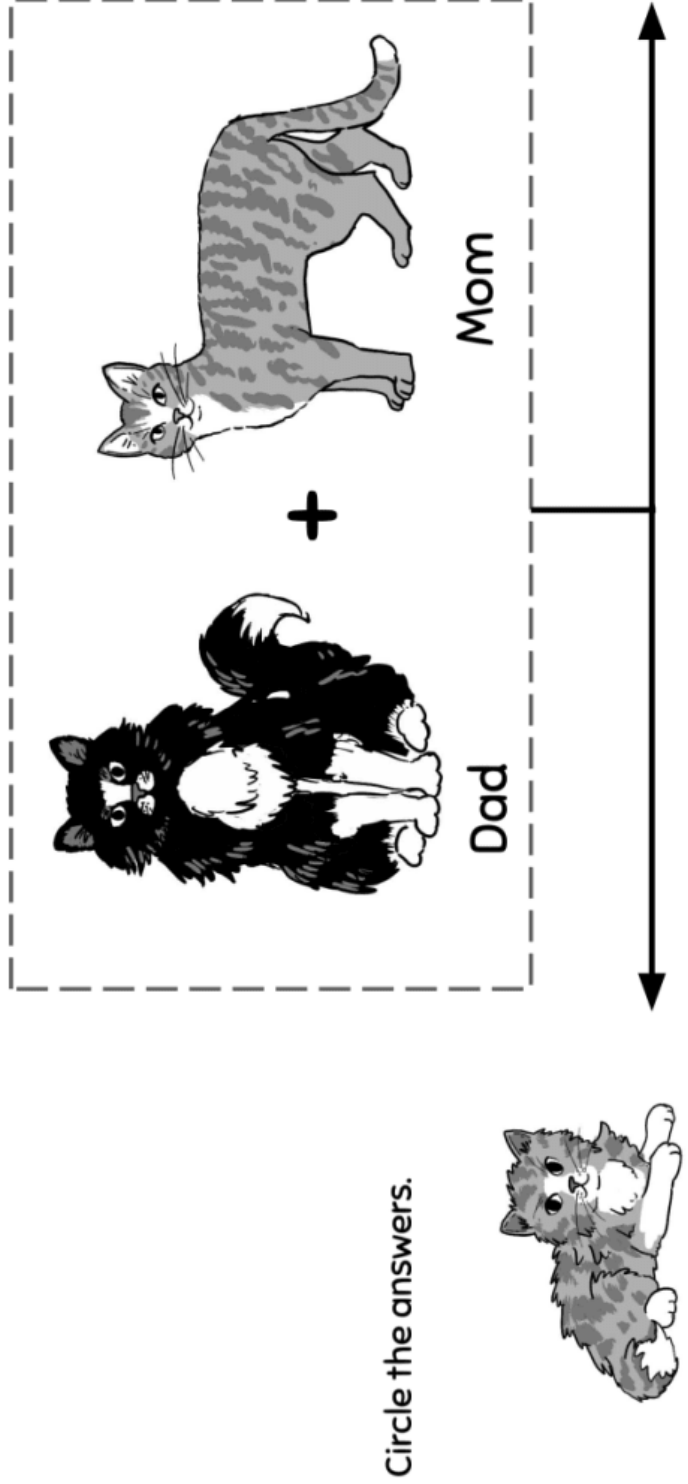


little

Name: _____

mystery science

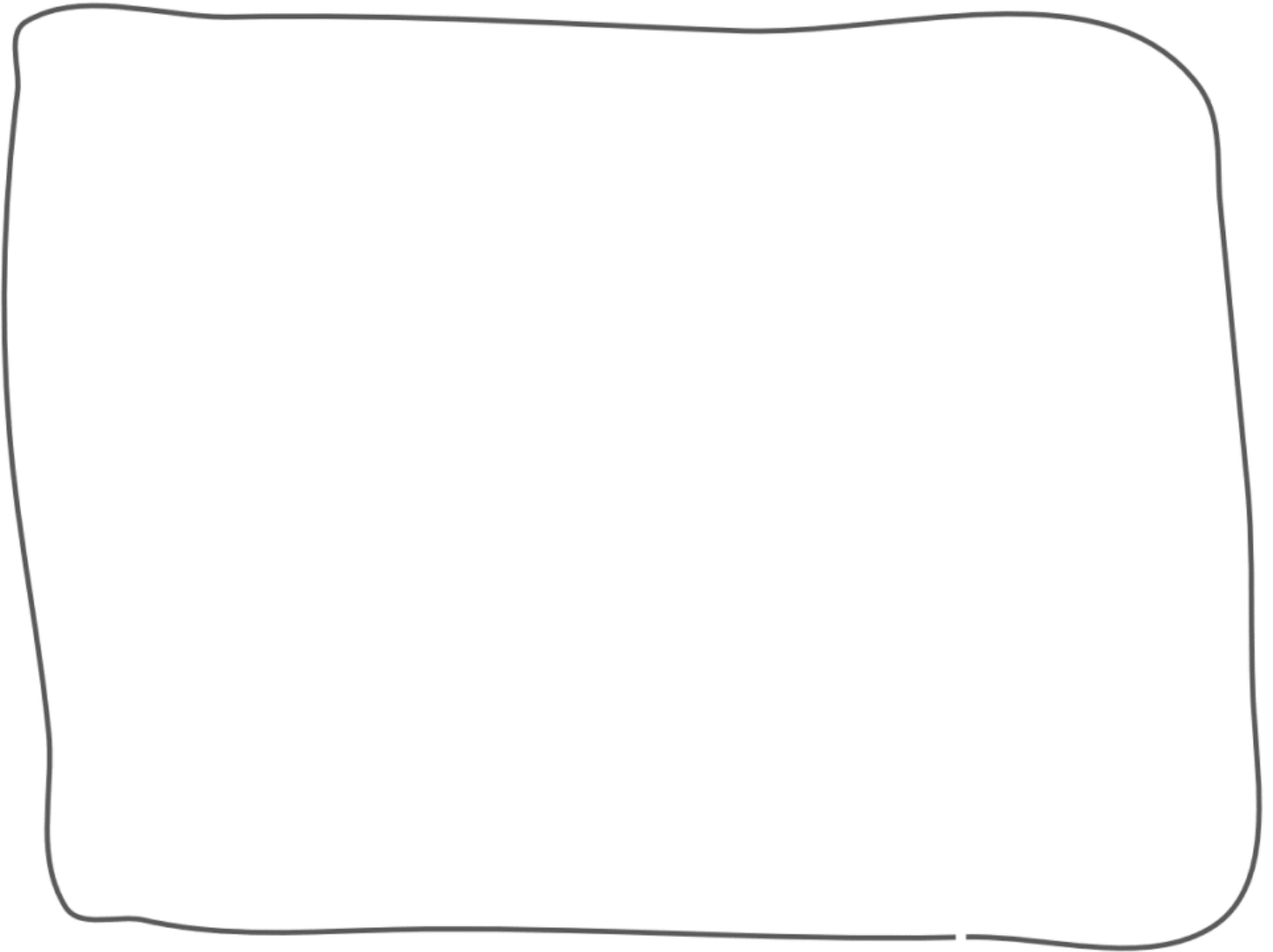
How can you predict what an animal's babies will look like?



This kitten has (black/gray) fur This kitten has (black/gray) fur
that is similar to its (dad/mom). that is similar to its (dad/mom).

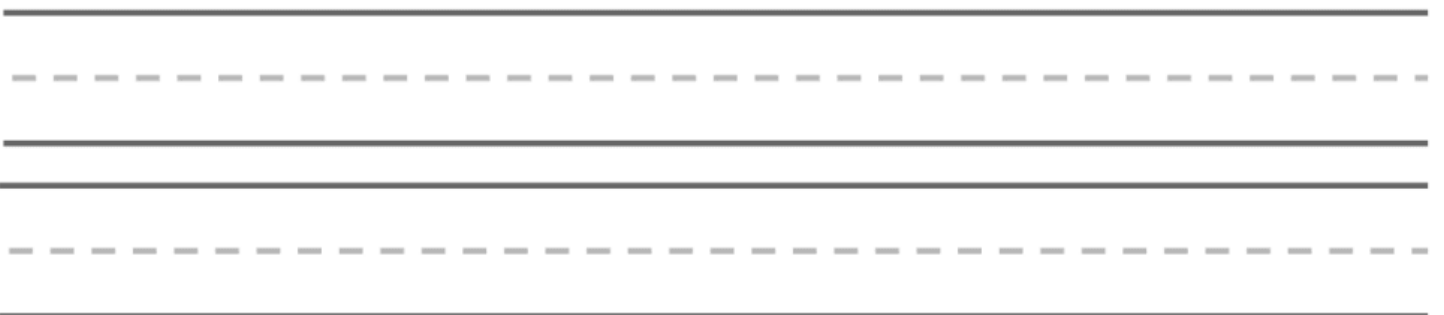
2. These kittens look a little different from each other because

Name: _____



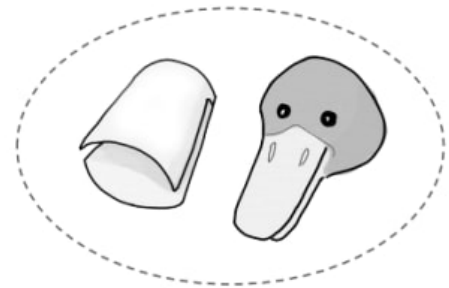
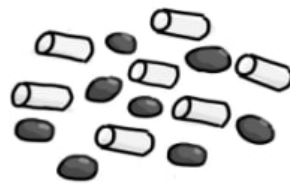
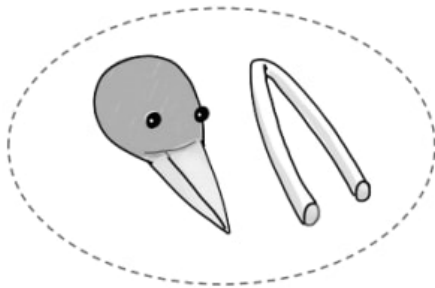
Draw and write your ideas.

Animal mothers help their young by...



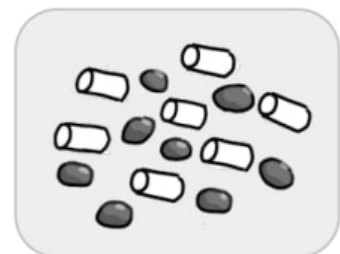
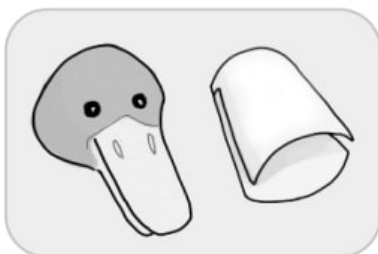
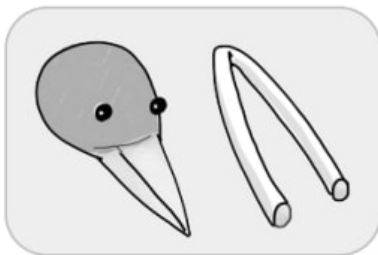
Name: _____

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



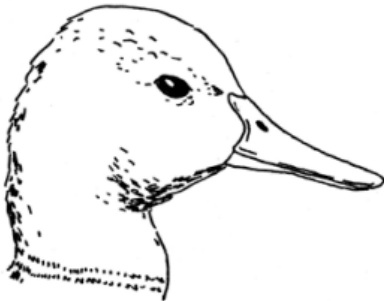
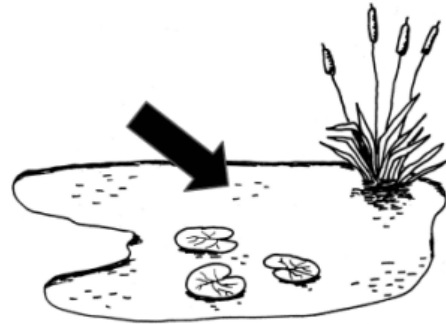
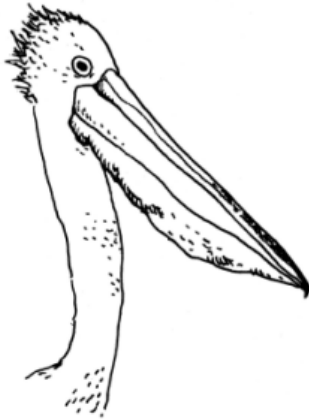
2. How many pieces did you get? ____

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



Name: _____

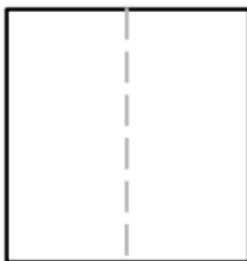
1. Match each bird with its food.



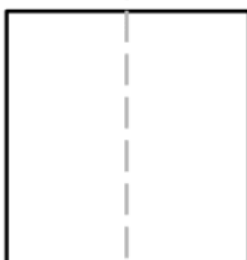
2. We can figure out what a bird eats by

Color a moth

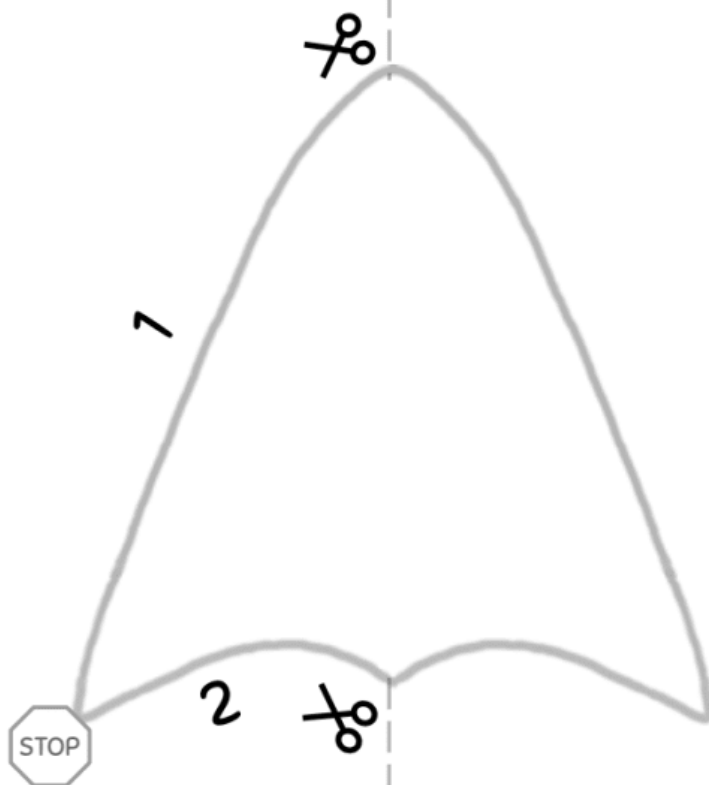
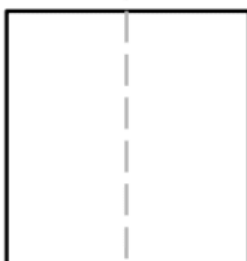
color test
square 1



color test
square 2



color test
square 3



Name: _____

**Look for moths like these,
hiding in the trees :**



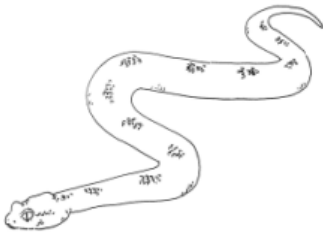
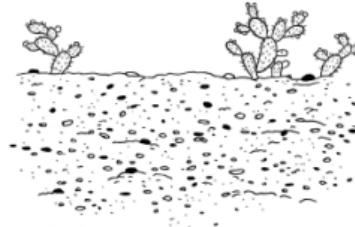
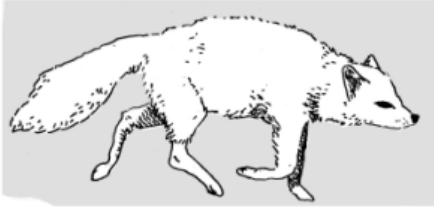
**Circle the number of moths you
find:**

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?

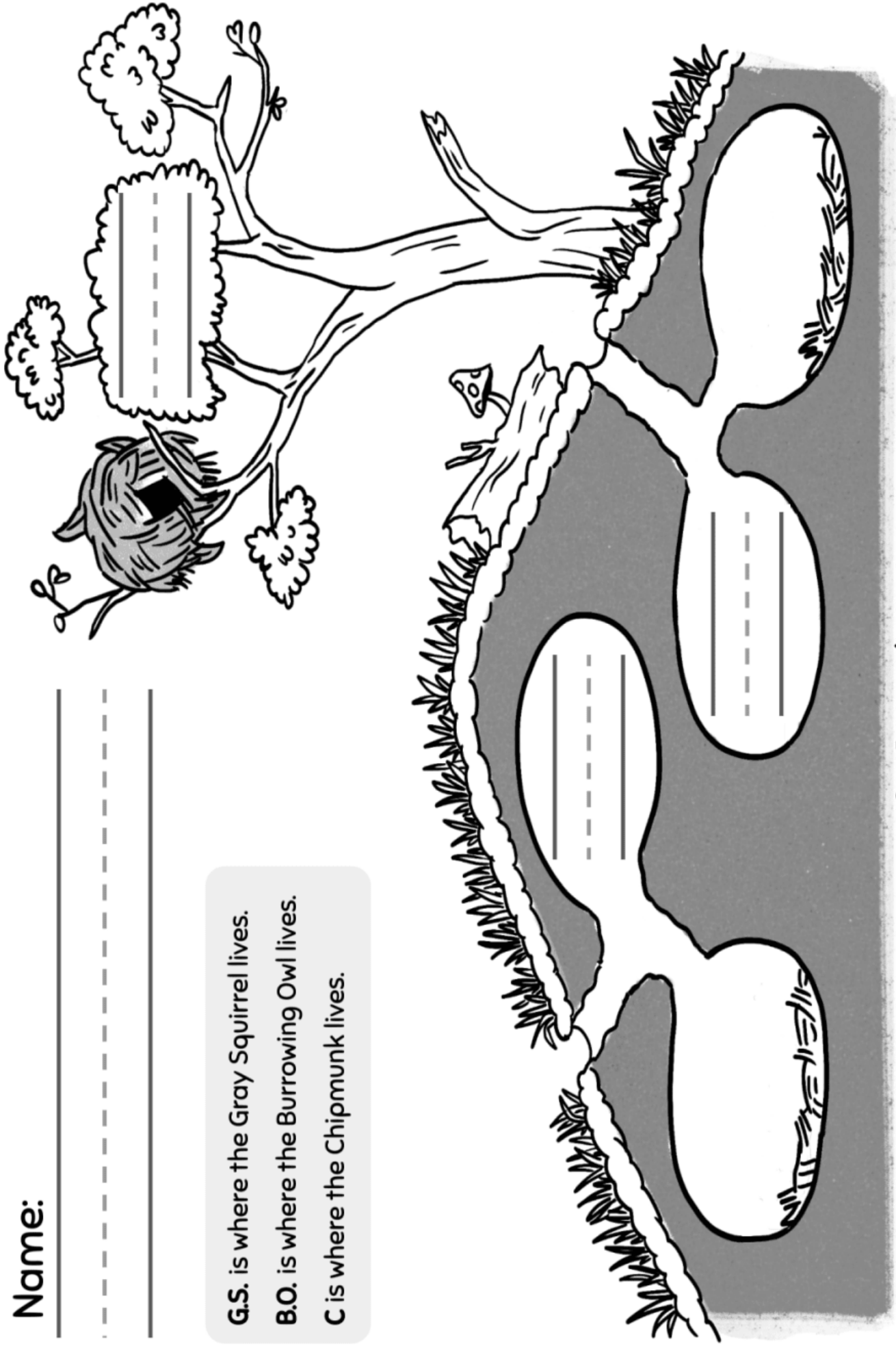
Animal Homes

Name: _____

G.S. is where the Gray Squirrel lives.

B.O. is where the Burrowing Owl lives.

C is where the Chipmunk lives.



mystery science

Animal Traits & Survival | Performance Task

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



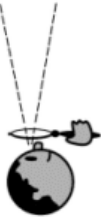
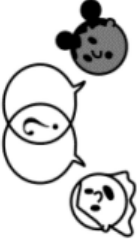
What do sunflowers do when you're not looking?

I am also curious about...

See-Think-Wonder Chart

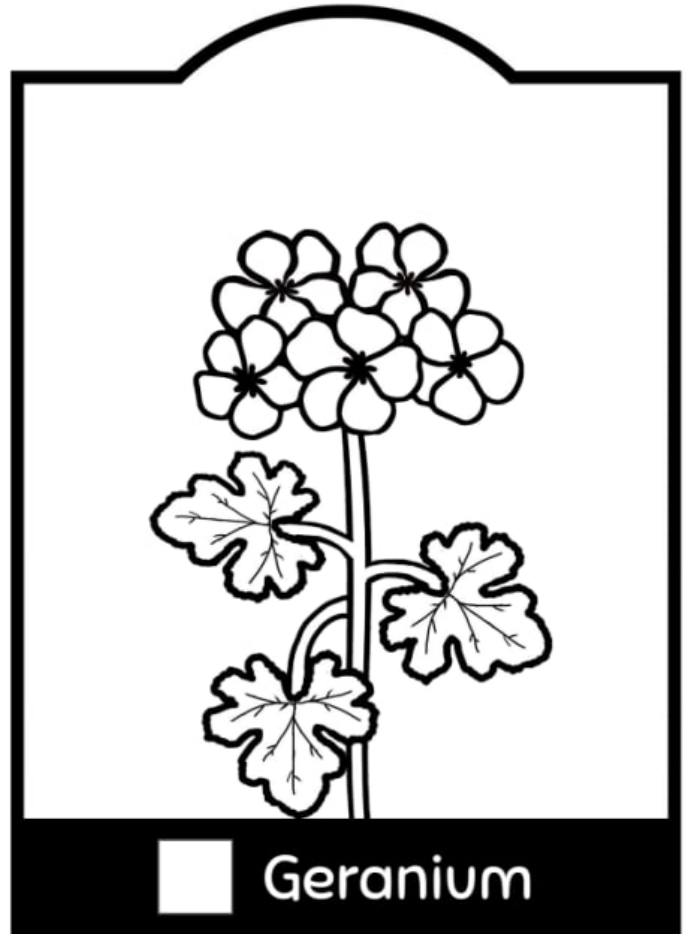
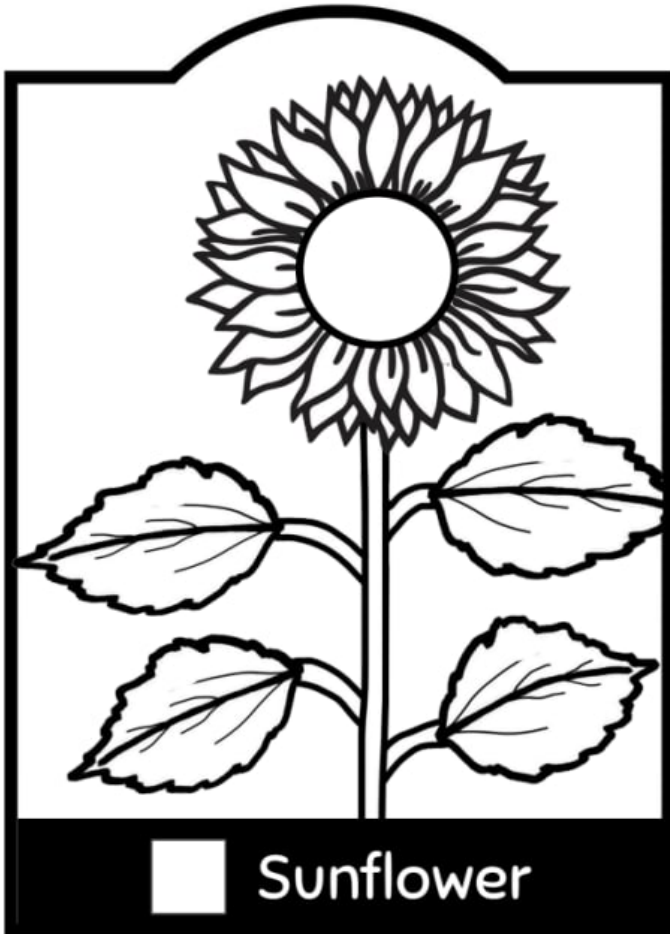
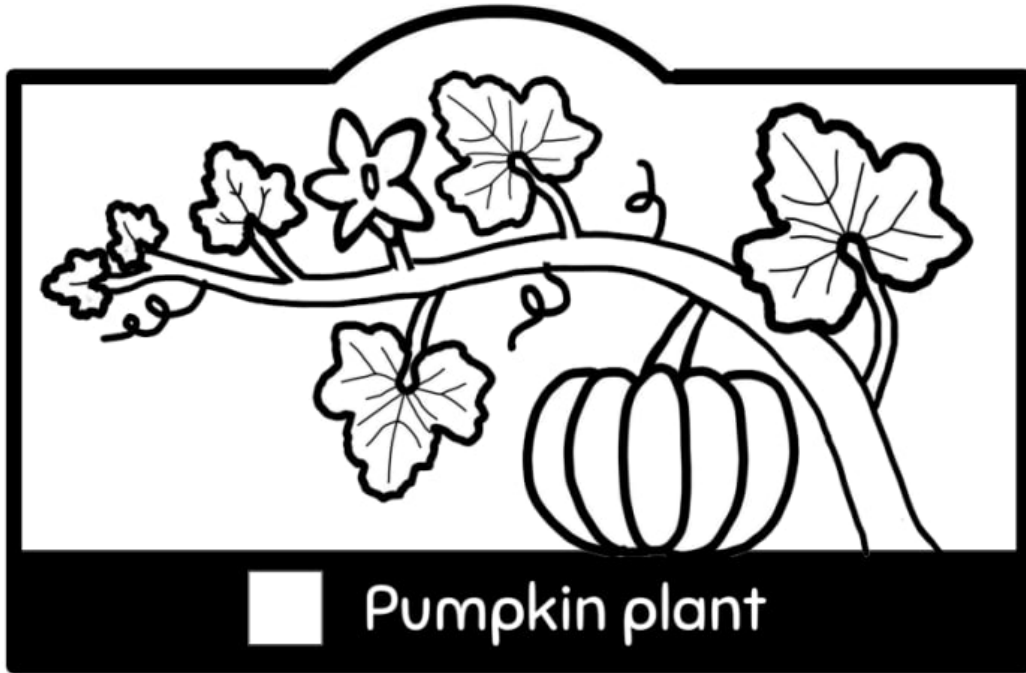
mystery science

Name: _____

See What did you observe? 	Think How can you explain what is happening? 	Wonder What questions do you have? 

Look for clues

Name: _____



mystery science

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

Name: _____

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



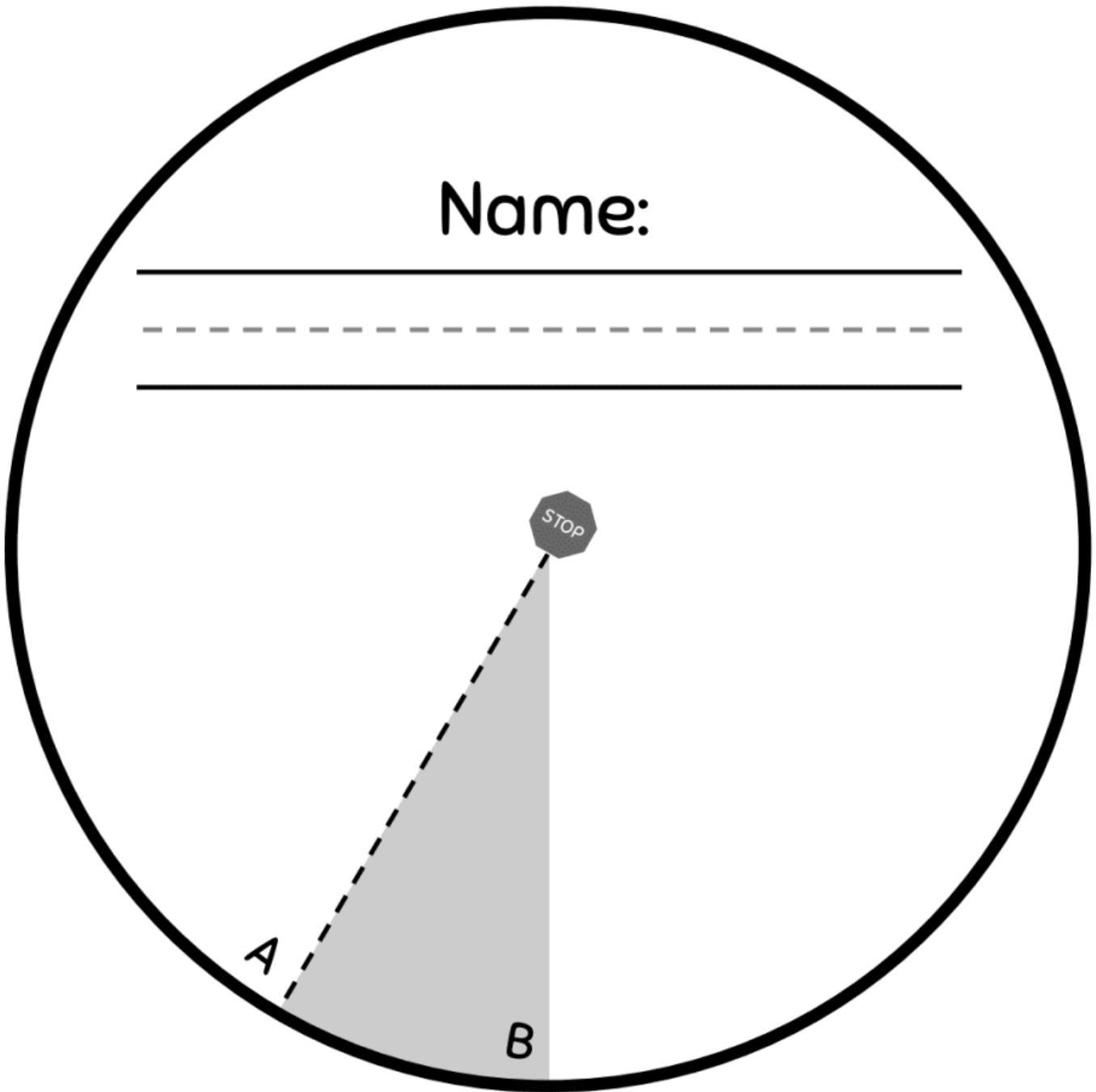
Pepper
Adult Plant #3

mystery science

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

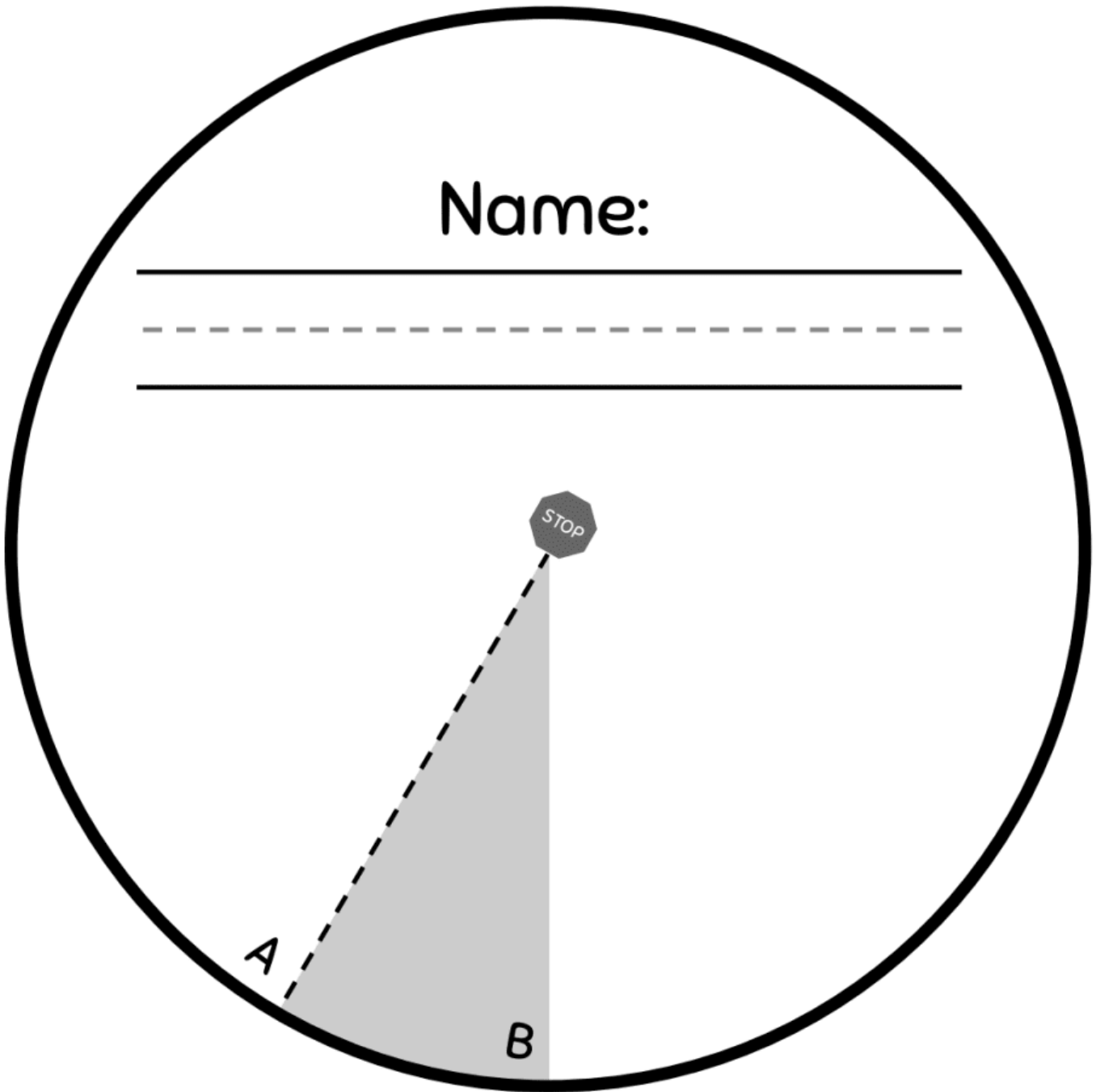
umbrella top

Name: _____



umbrella top

Name: _____



Name: _____

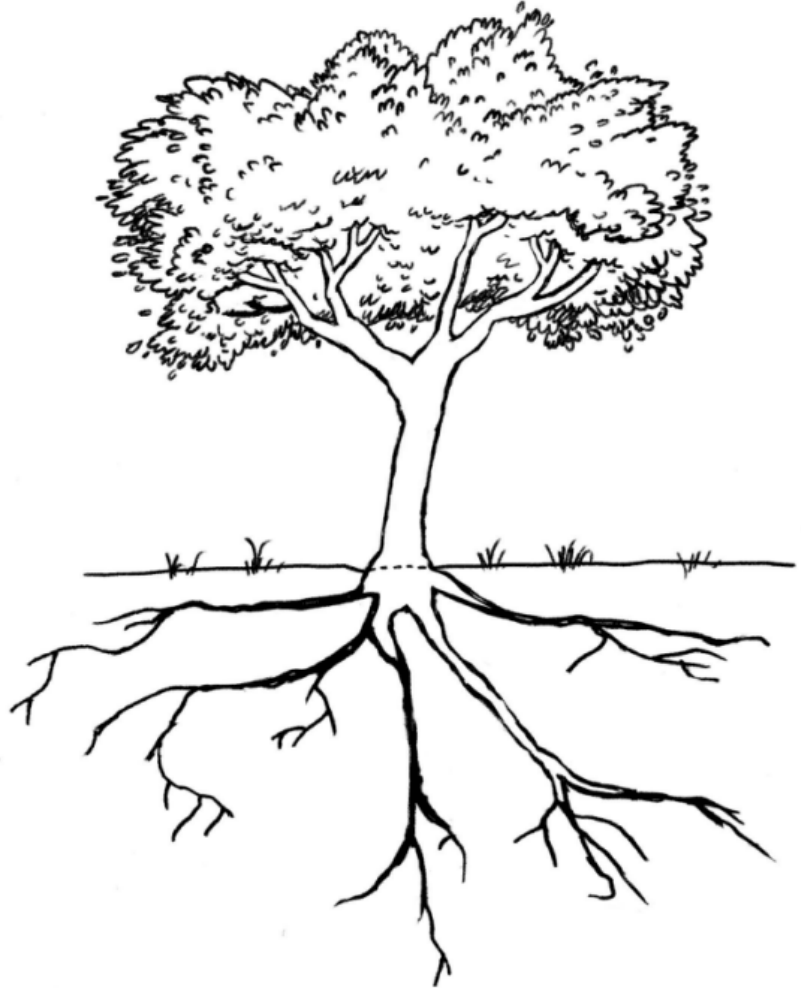
1. Draw an arrow from each word to that part of the tree.

trunk

branches

roots

leaves



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

Name: _____

1. Draw two things the flower needs to grow.

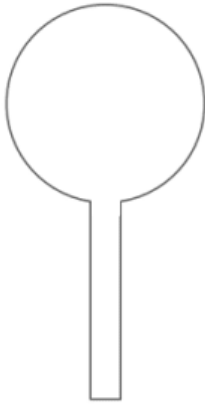


2. Describe two parts of the flower that help it get what it needs.

Tiny Water Lily

Name _____

Practice drawing your leaf:



Draw your final leaf:

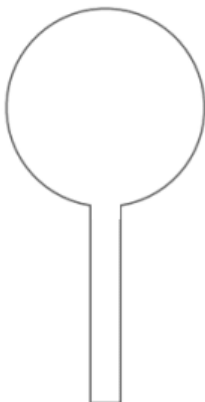
mystery science

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



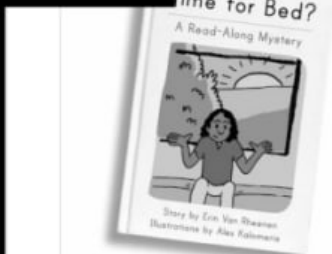
What does your shadow do when you're not looking?

Lesson 3



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

Lesson 4



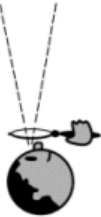
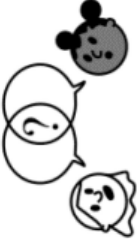
Why do you have to go to bed early in the summer?

I am also curious about...

See-Think-Wonder Chart

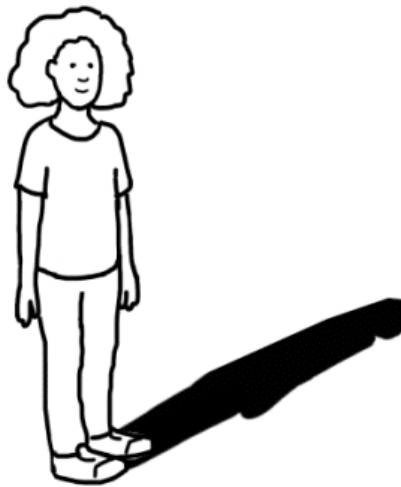
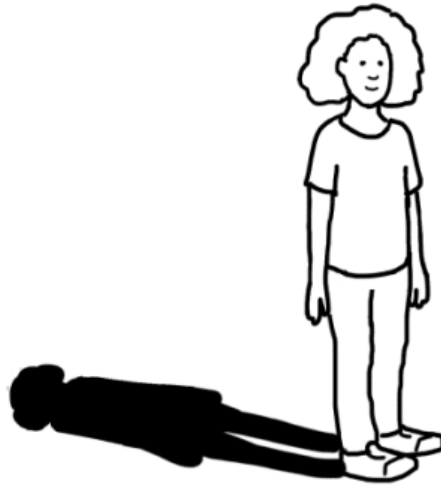
mystery science

Name: _____

See What did you observe? 	Think How can you explain what is happening? 	Wonder What questions do you have? 

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



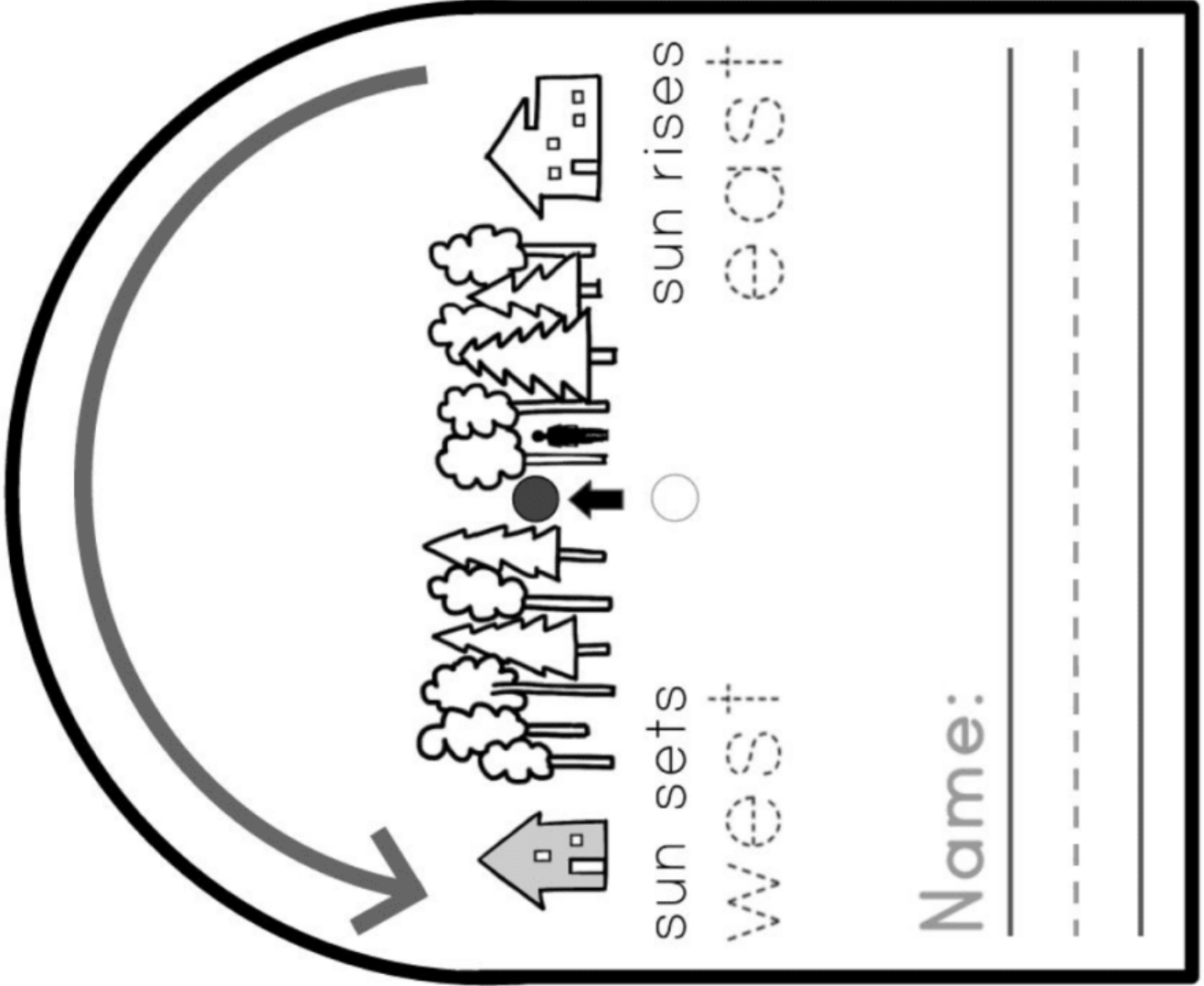
morning or
evening

long shadows



midday

2. Shadows change during the day because...



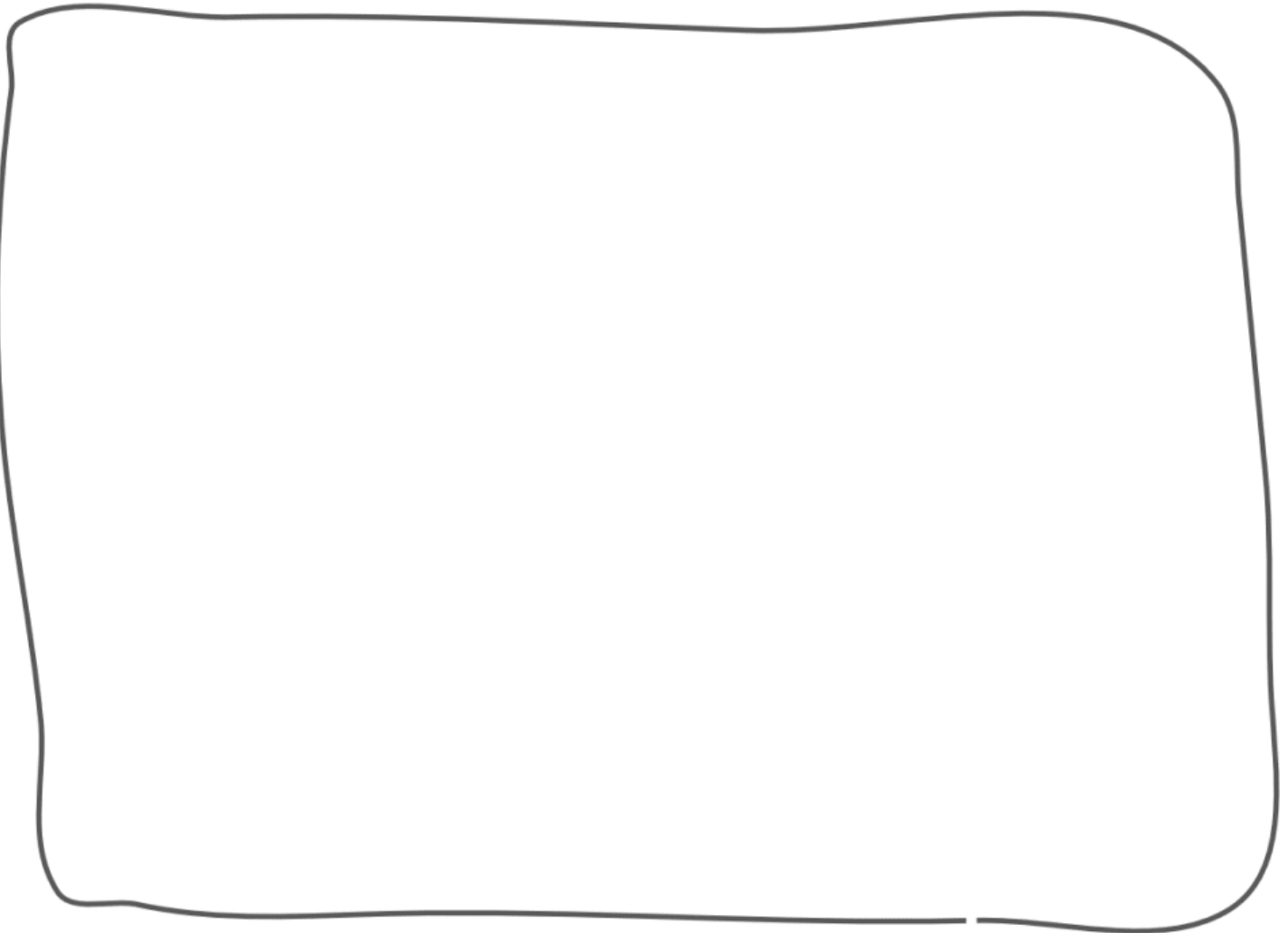
Name: _____

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 :-)



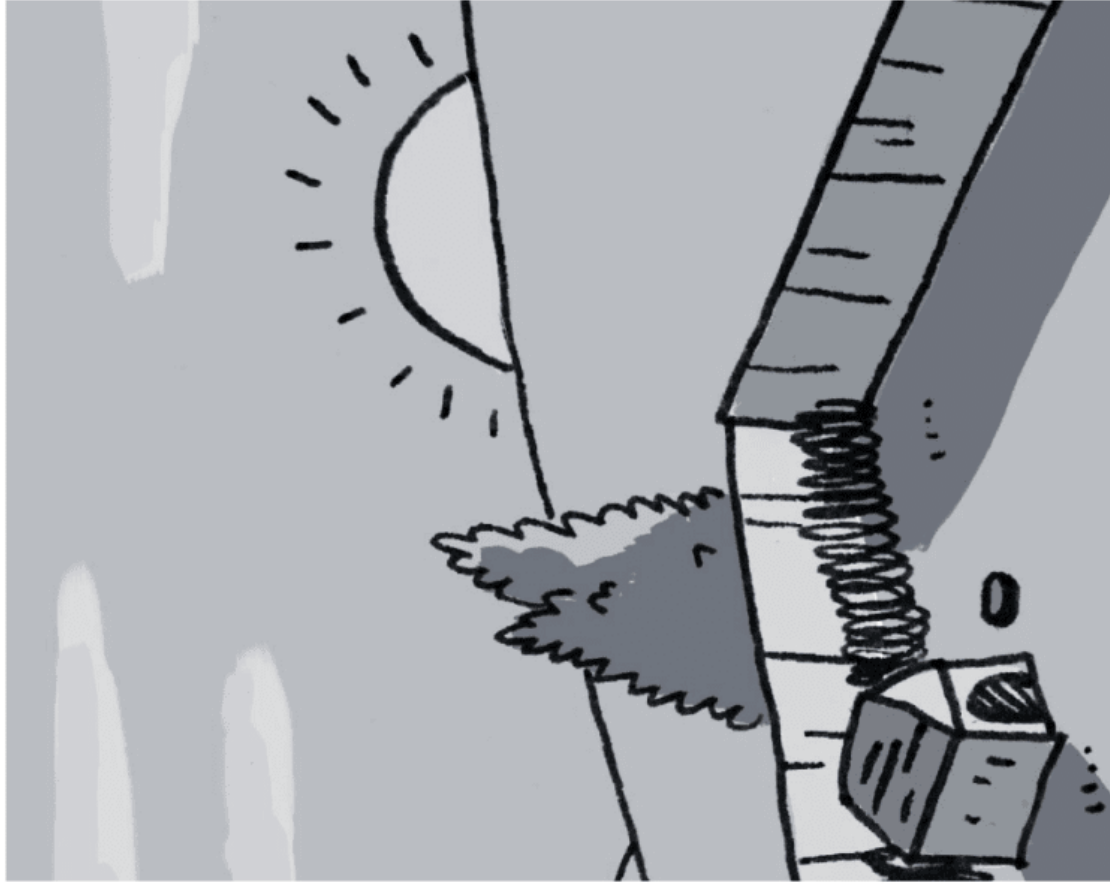
mystery science

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

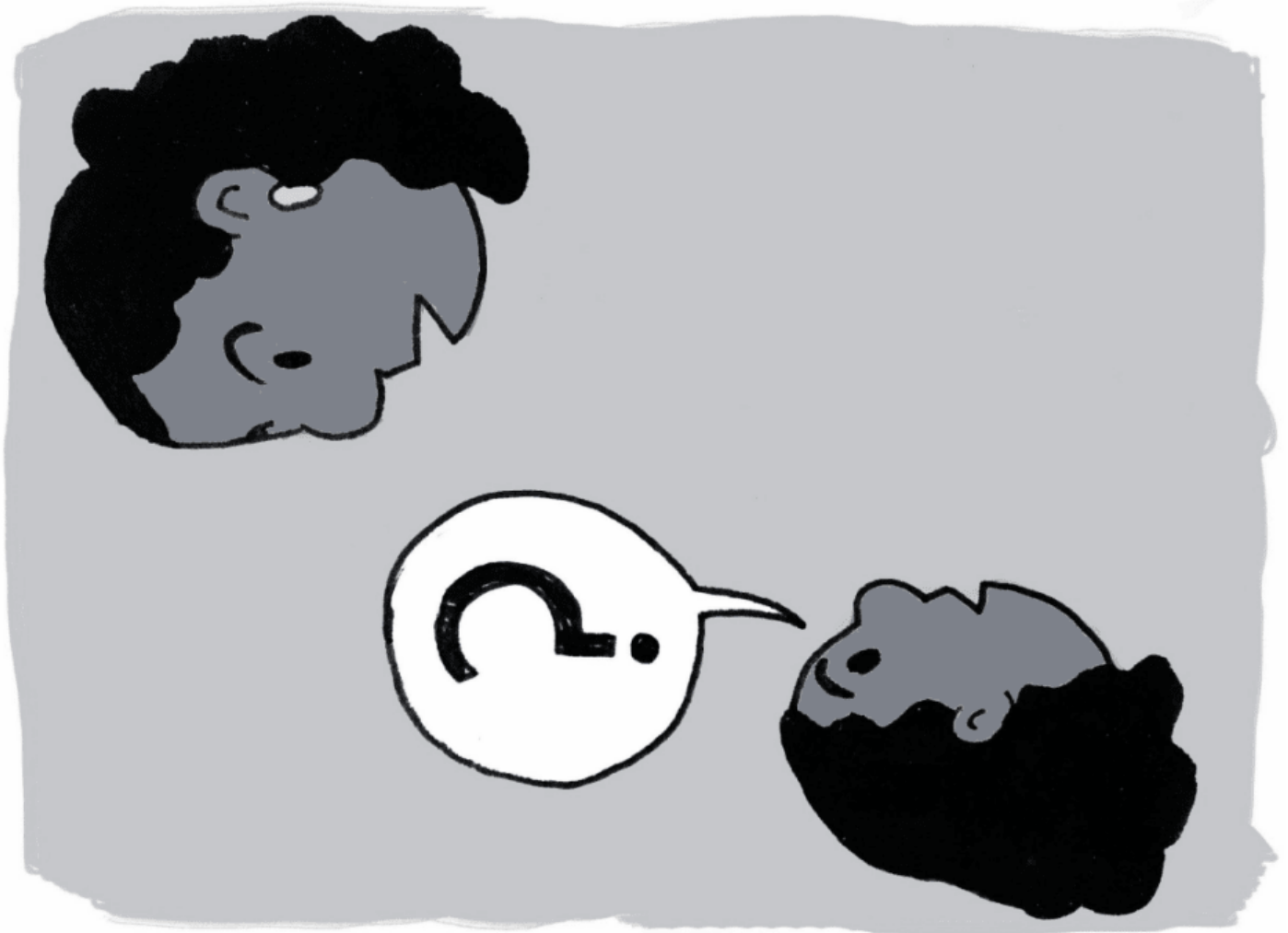


Here comes
the sun.

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!”

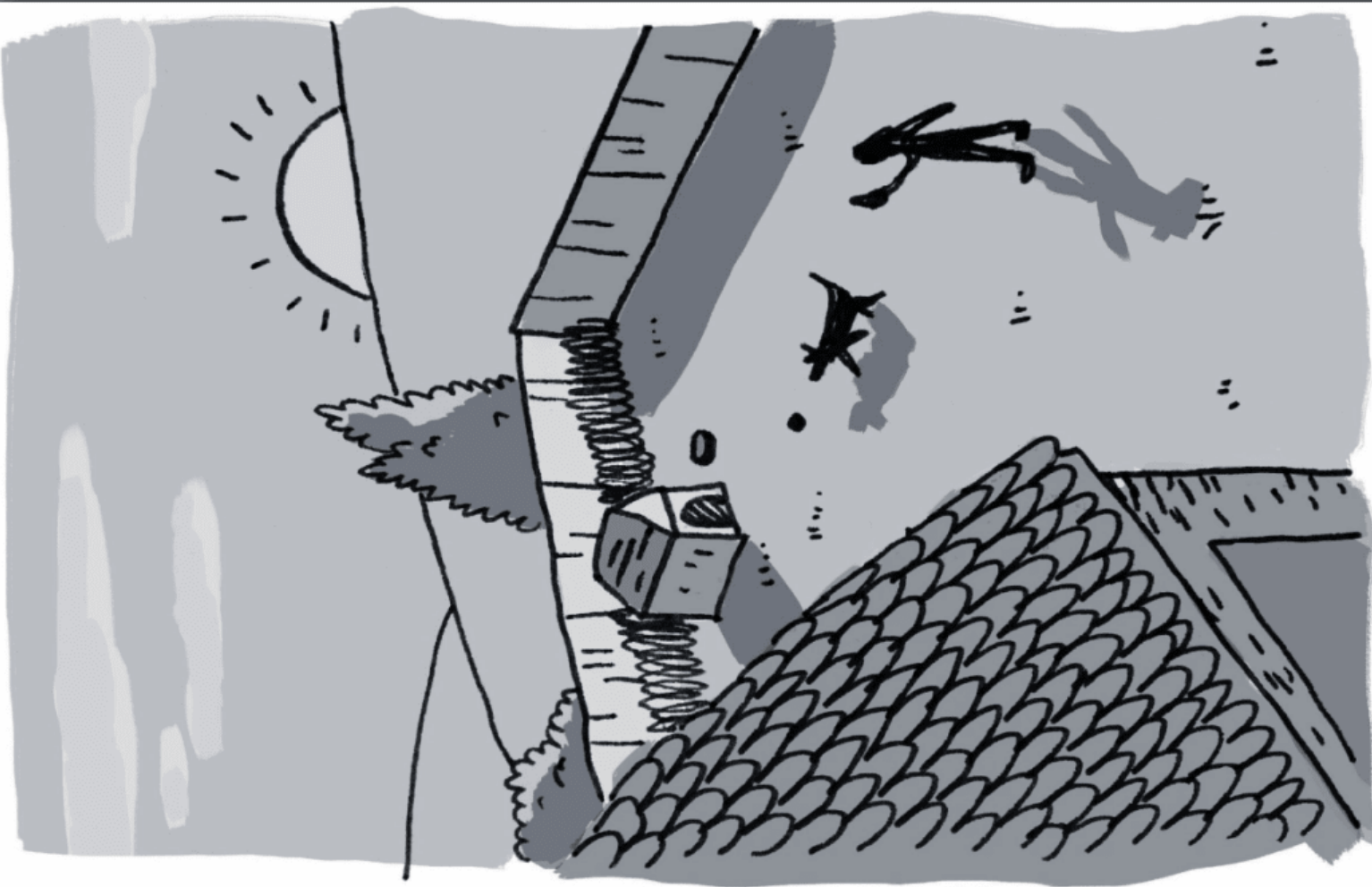


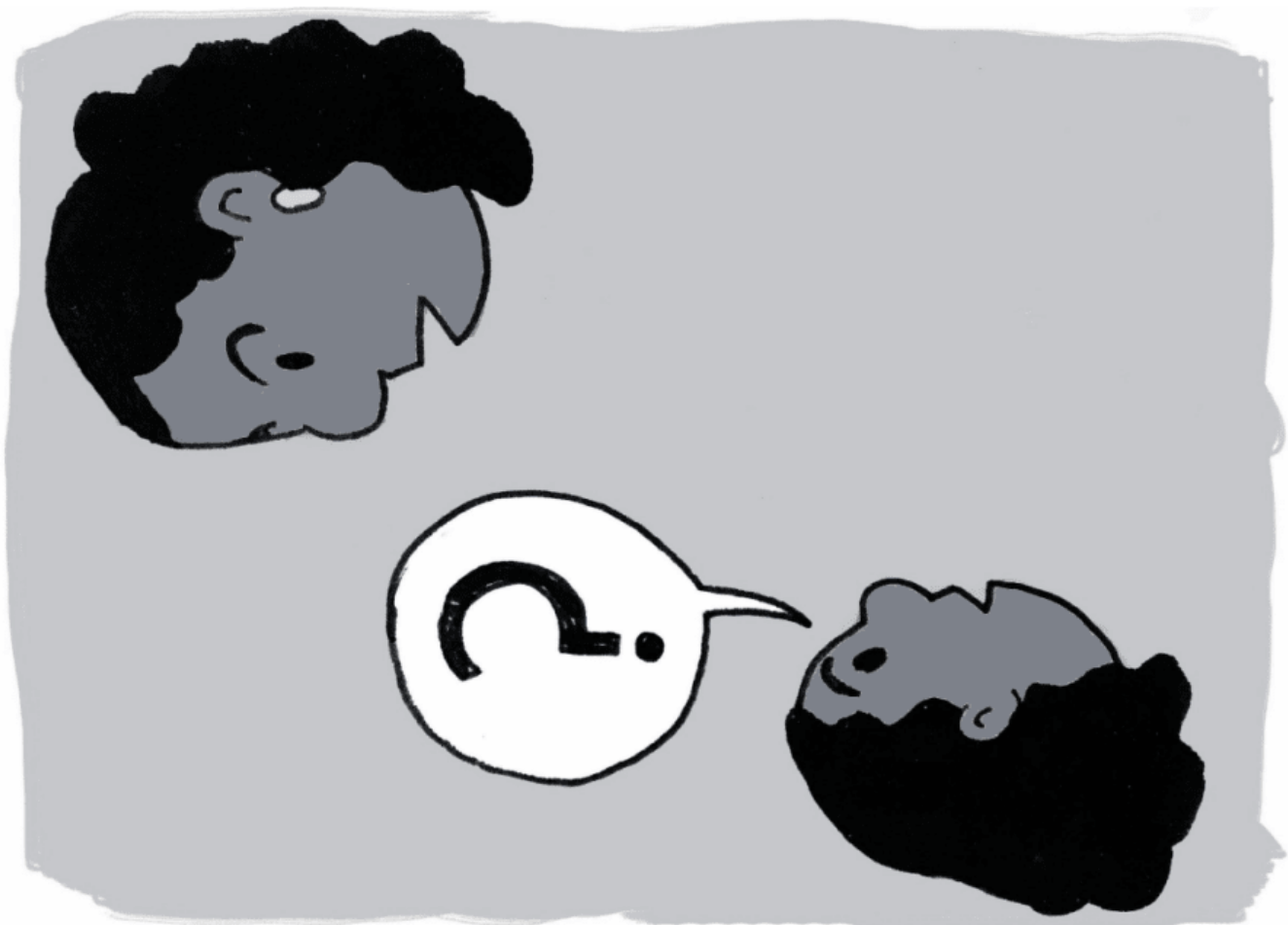
I eat my
lunch.

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.”

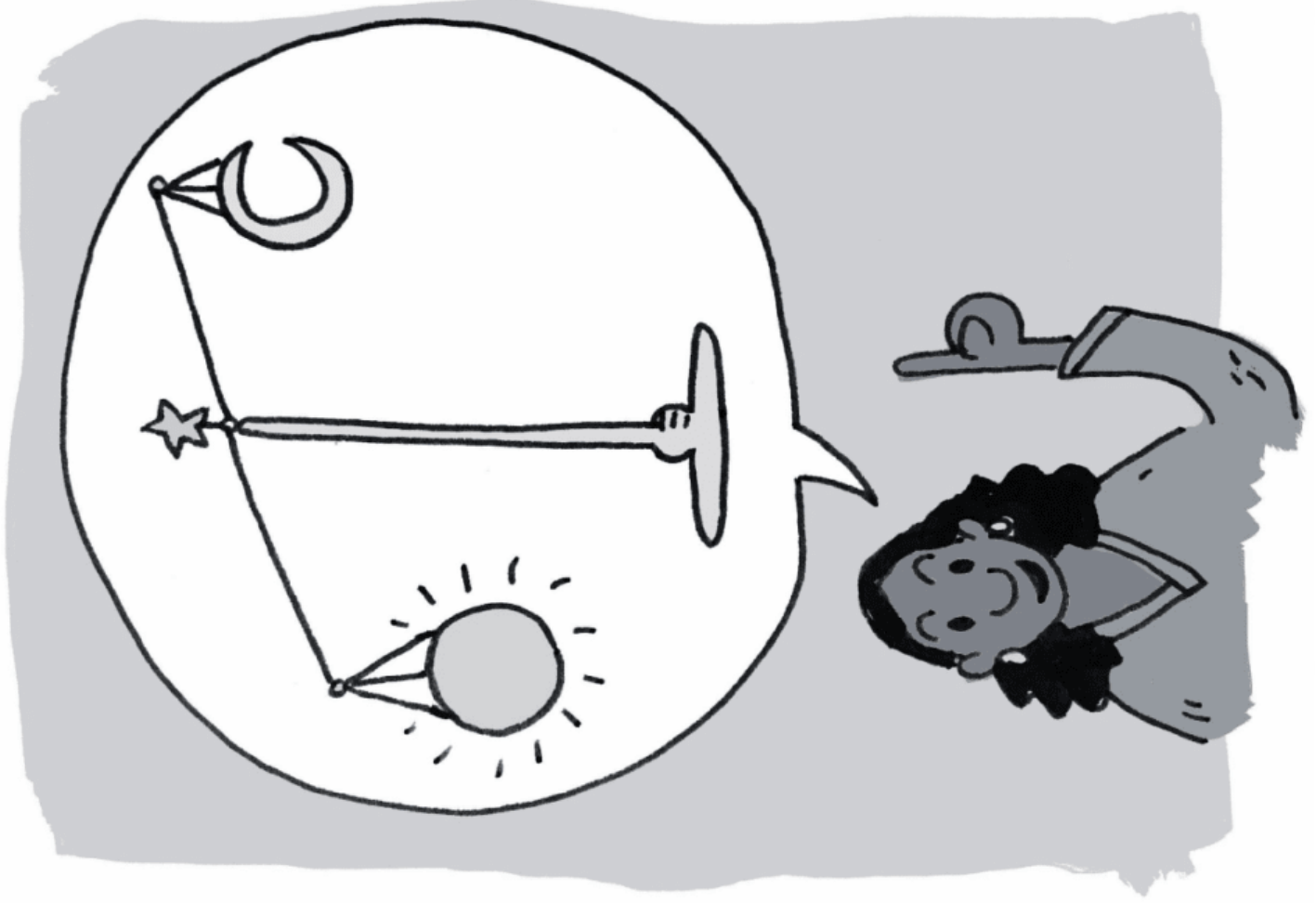


“Summer days
are long.”

“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!



SUMMER SUNSHINE

1st-Grade Reader :-)



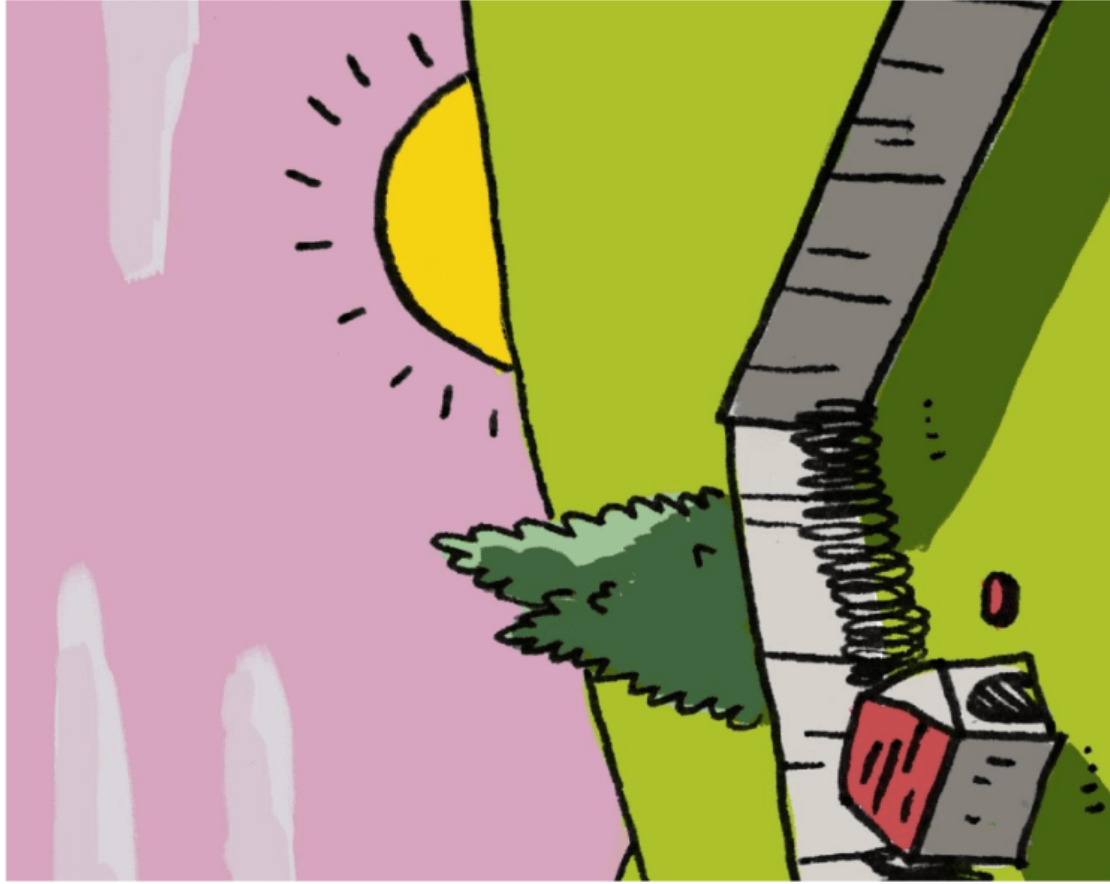
mystery science

Why do you have to go
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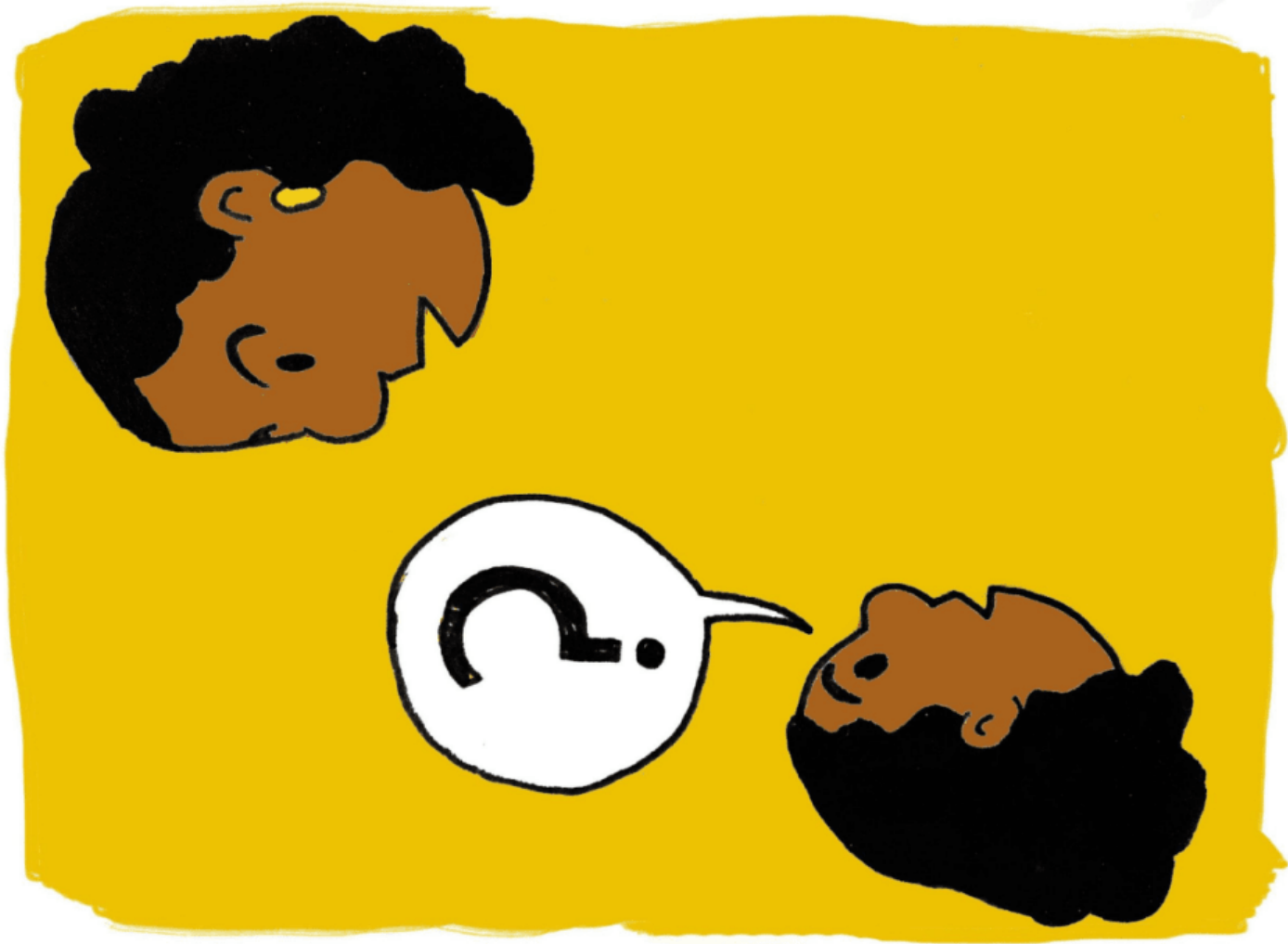


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out,” I tell my
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outside.

Pete runs in the
grass.

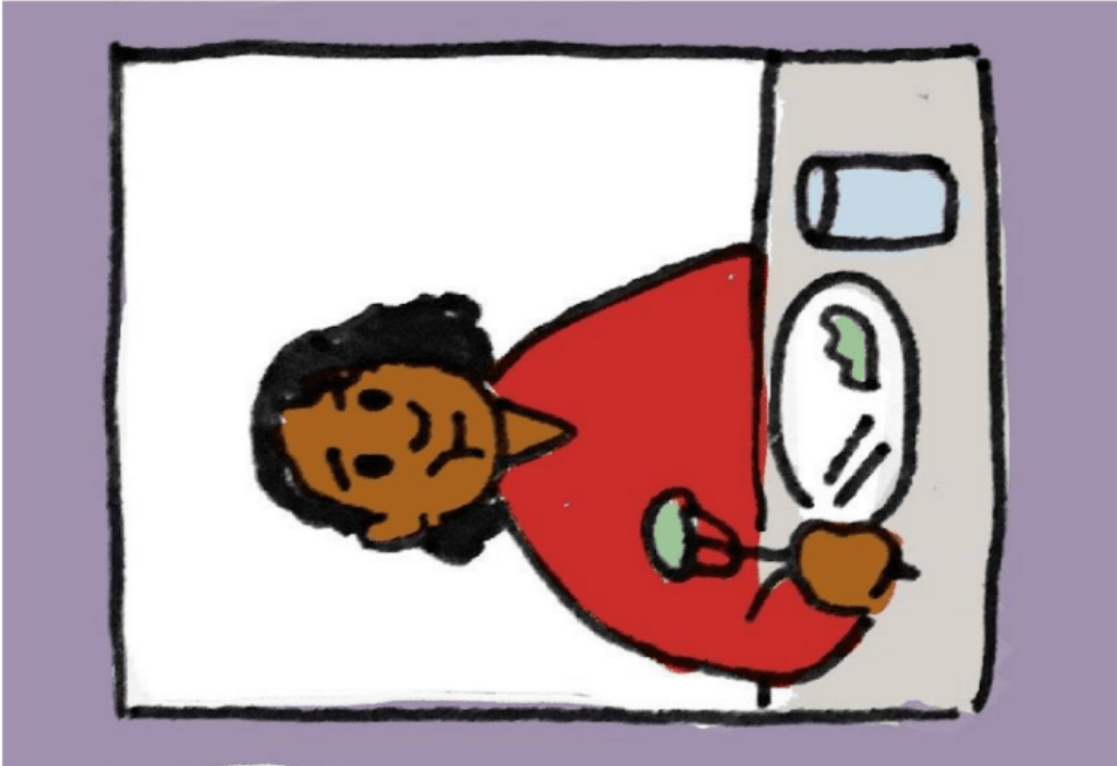


Mom says,
“Time for
lunch!”

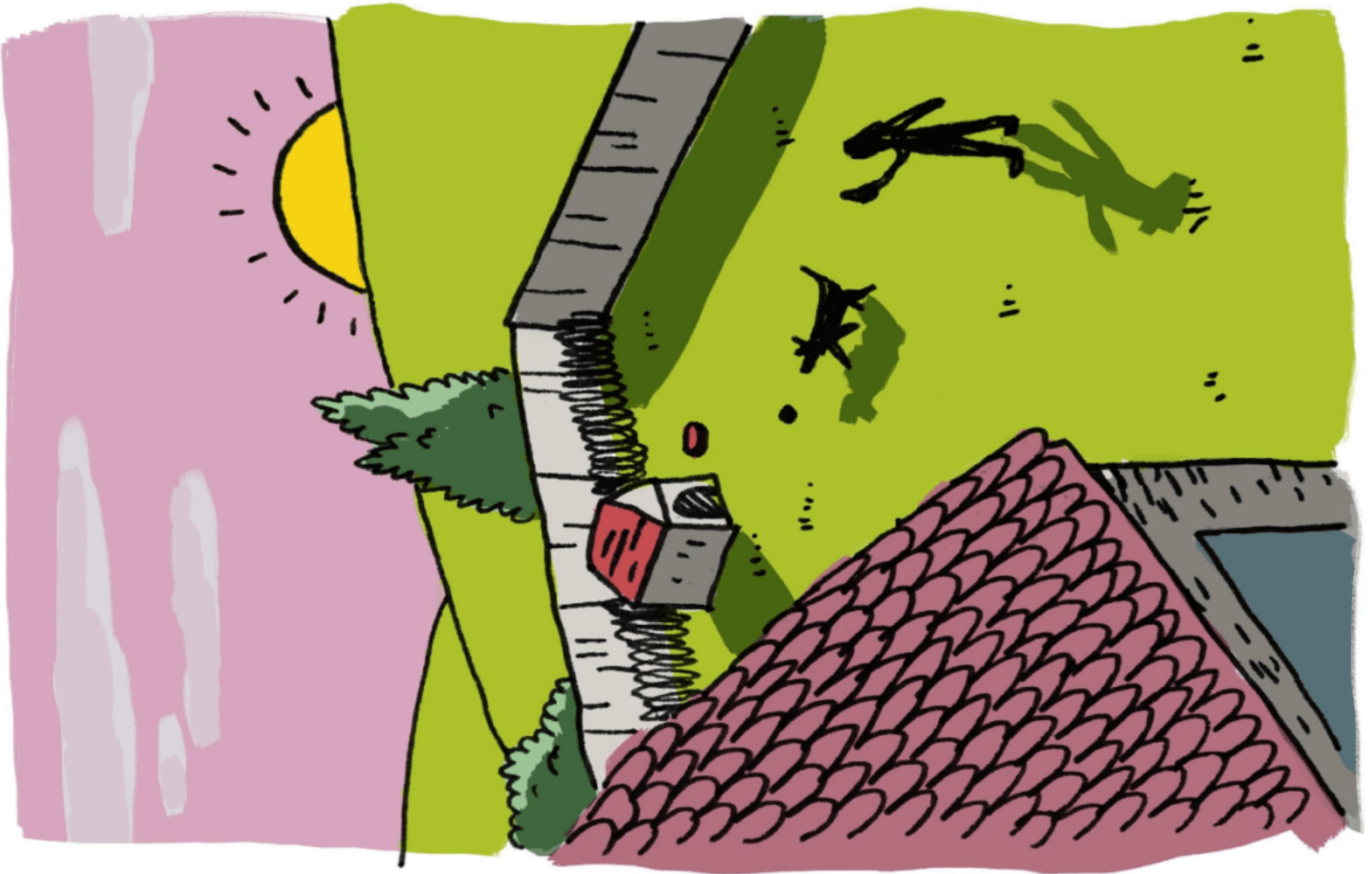


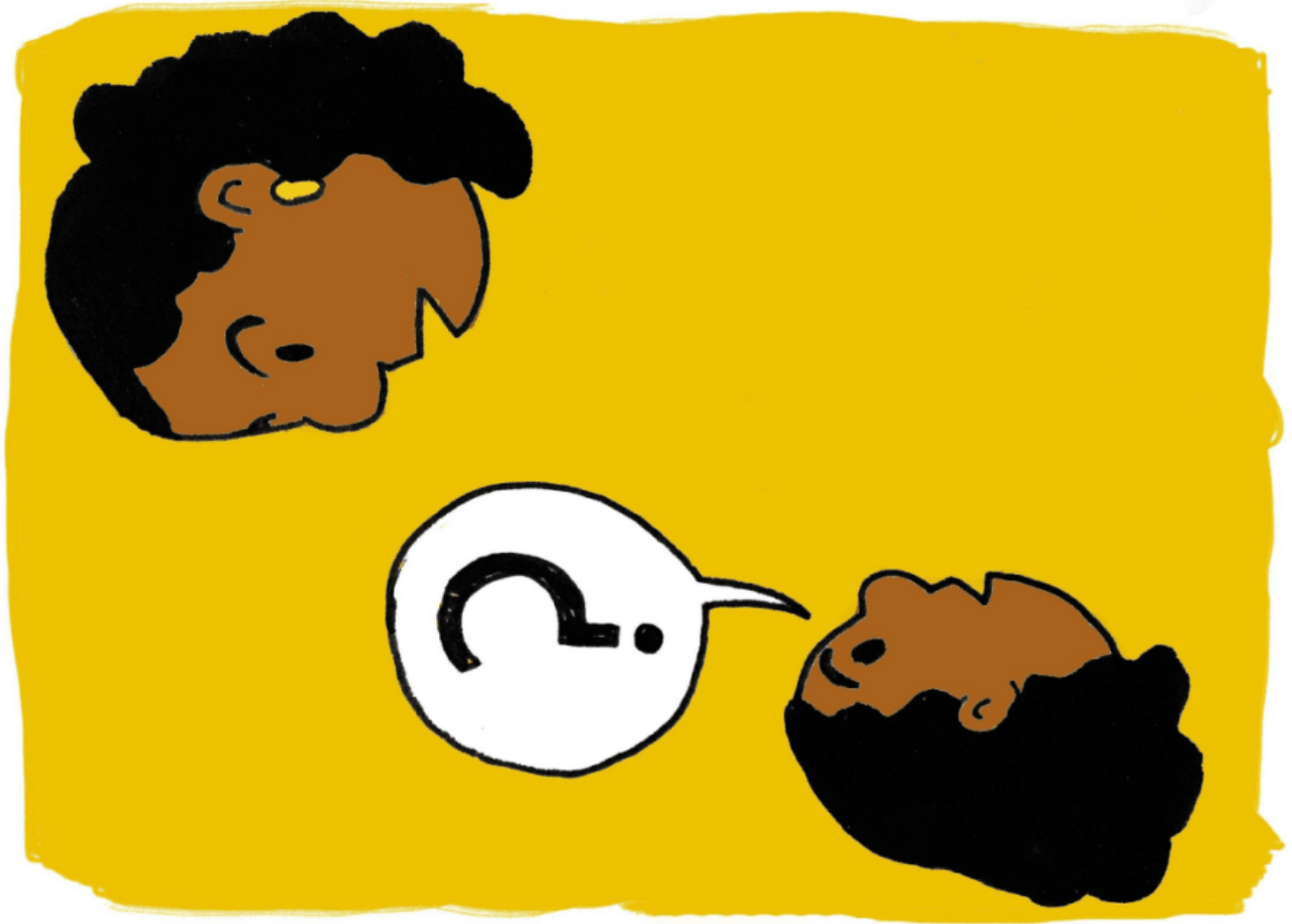
I eat my
lunch.

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.”

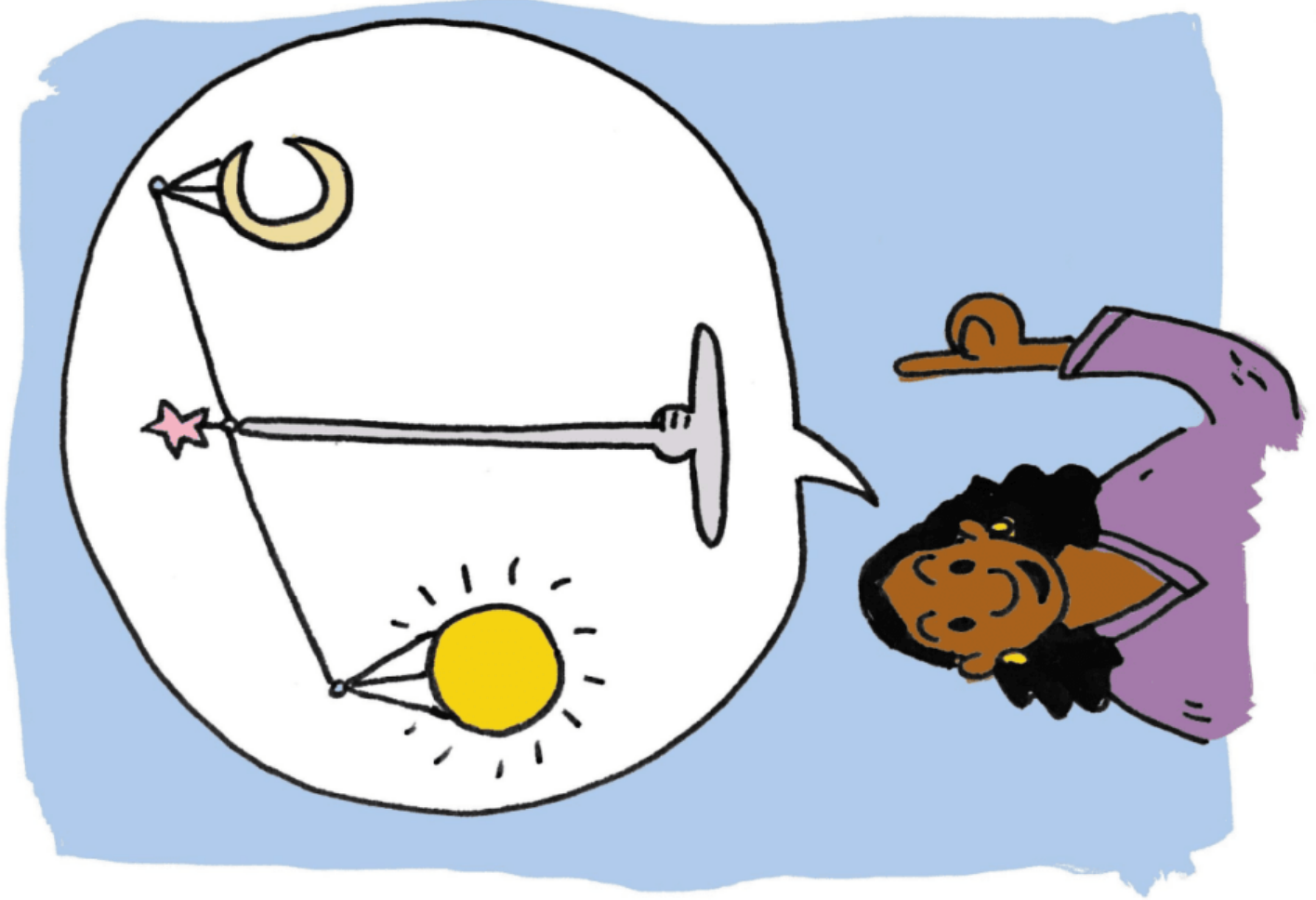


“Summer days
are long.”

“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!

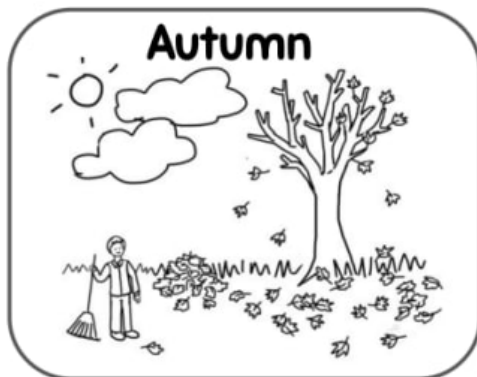


Name: _____

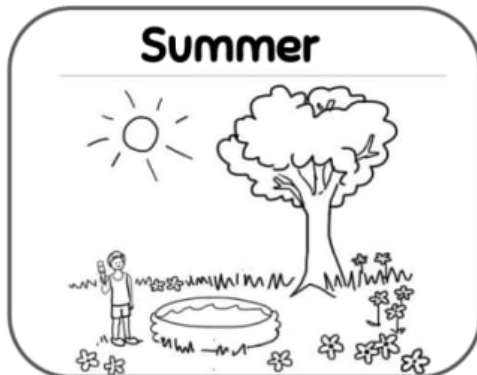
1. Match the season to how long the days are.



days are
longest



days are
shortest



days are
medium

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

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



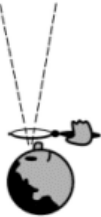
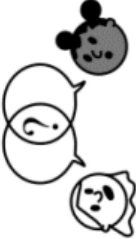
How can stars help you if you get lost?

I am also curious about...

See-Think-Wonder Chart

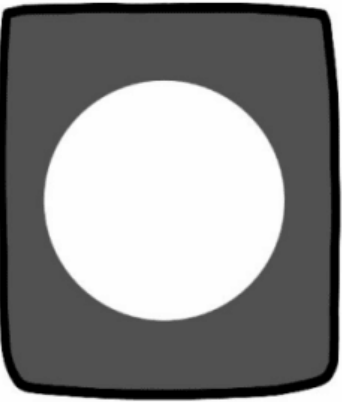
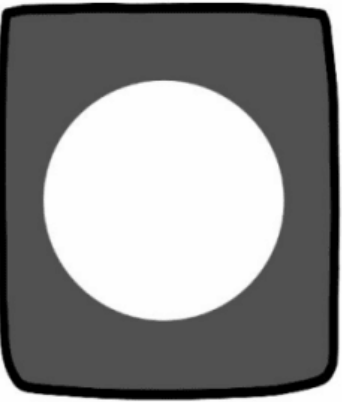
mystery science

Name: _____

See What did you observe? 	Think How can you explain what is happening? 	Wonder What questions do you have? 

Moon Book by: _____

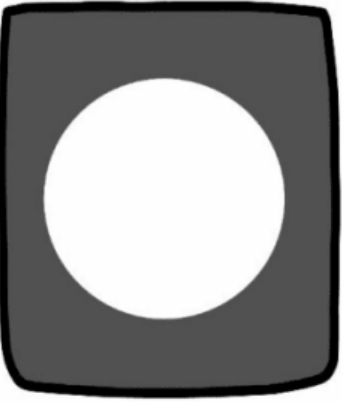
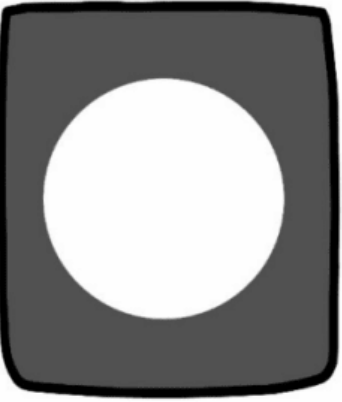
Full Moon



Four weeks

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

Days after full moon:



Half Moon

Days after full moon:

1	2	3	4	19	20	21
---	---	---	---	----	----	----

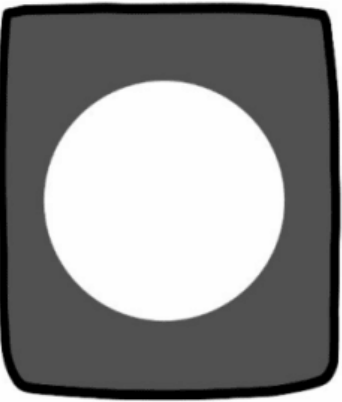
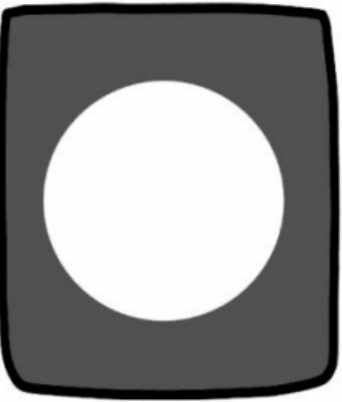
Three weeks

One week

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

Days after full moon:

Half Moon



Crescent Moon

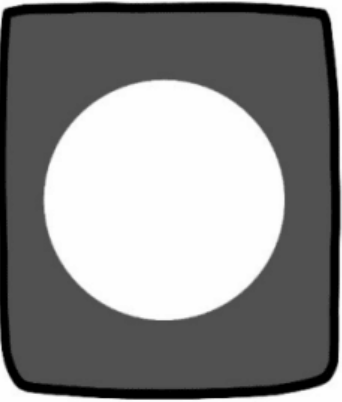
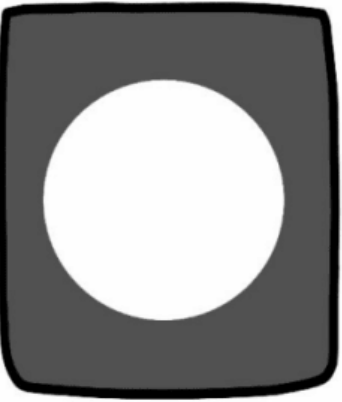
Days after full moon:

8	9	10	11	12	13	14
---	---	----	----	----	----	----

Two weeks

Days after full moon:

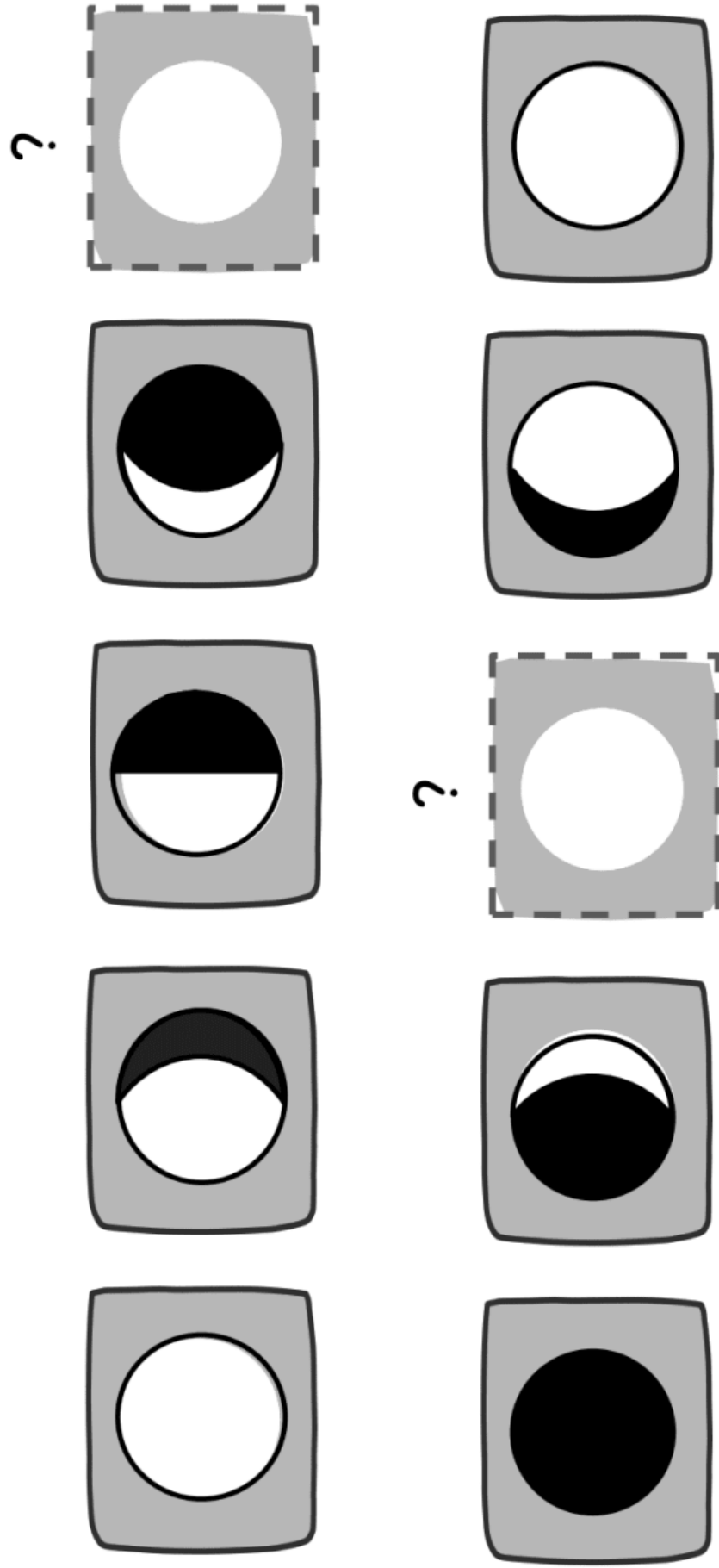
Crescent Moon



Days after full moon:

Name: _____

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
When can you see the full moon?



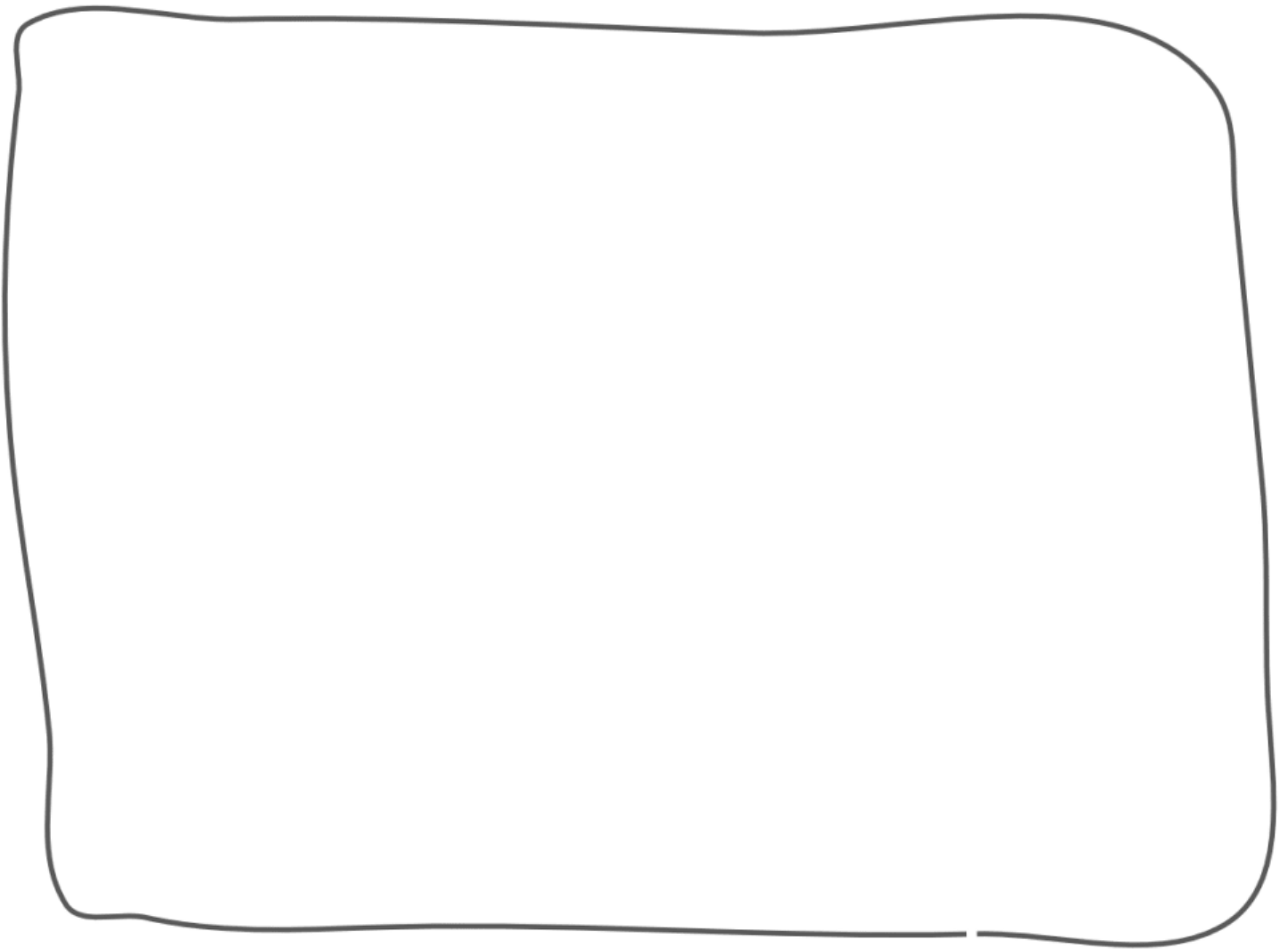
mystery science
Why do the stars come out at night?



mystery science

Why do the stars come out at night?

Name: _____



Draw and write your ideas.

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

Name: _____

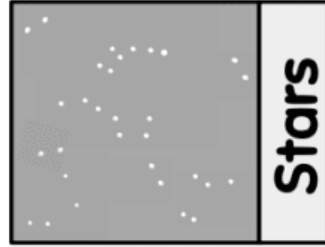
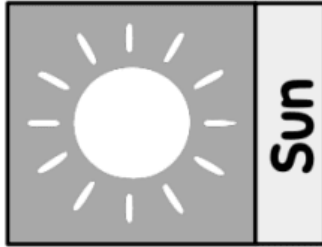
1. Draw how to find the North Star using the pattern of stars in the Big Dipper.



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

Name: _____

What can I see in
the sky?



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



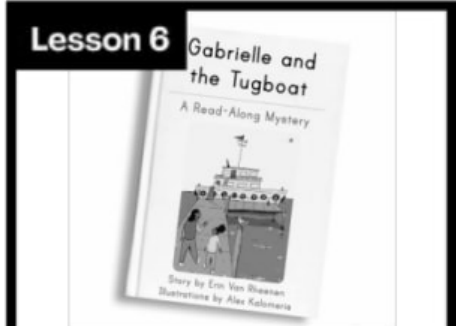
Can you see in the dark?

Lesson 5



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

Lesson 6



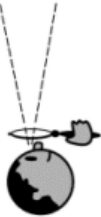
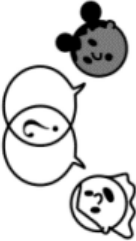
How do boats find their way in the fog?

I am also curious about...

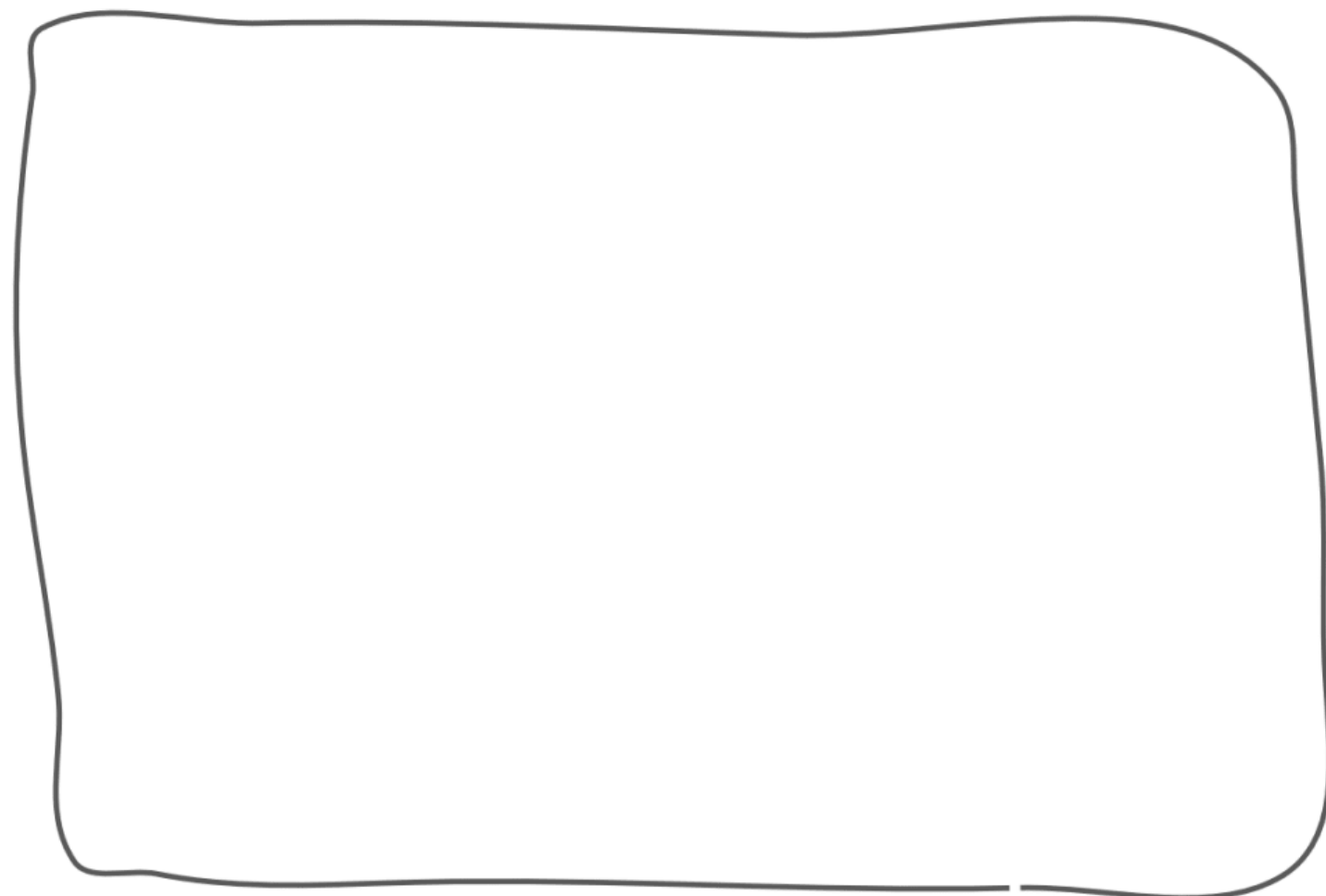
See-Think-Wonder Chart

mystery science

Name: _____

See What did you observe? 	Think How can you explain what is happening? 	Wonder What questions do you have? 

Name: _____

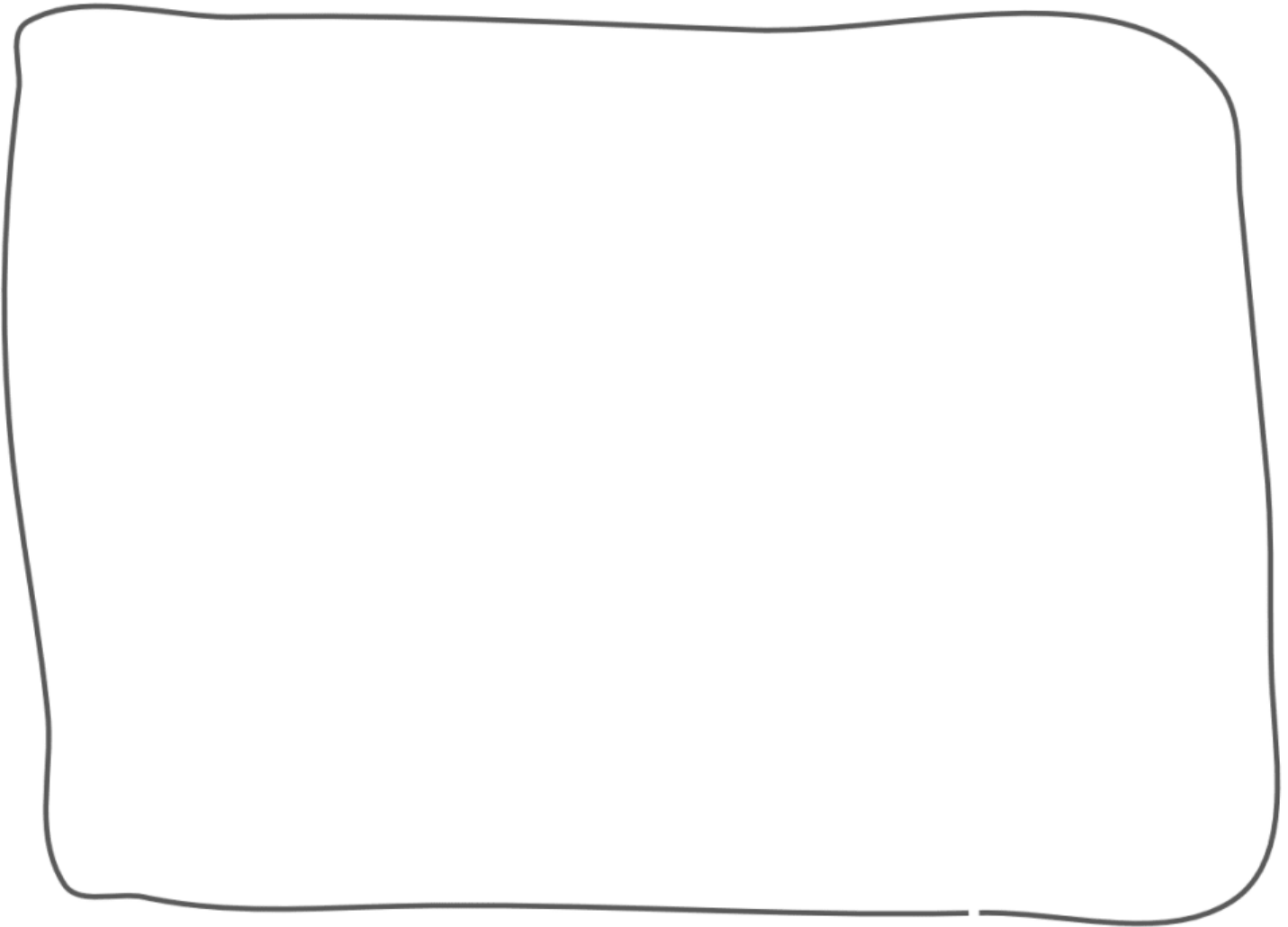


Draw and write your ideas.

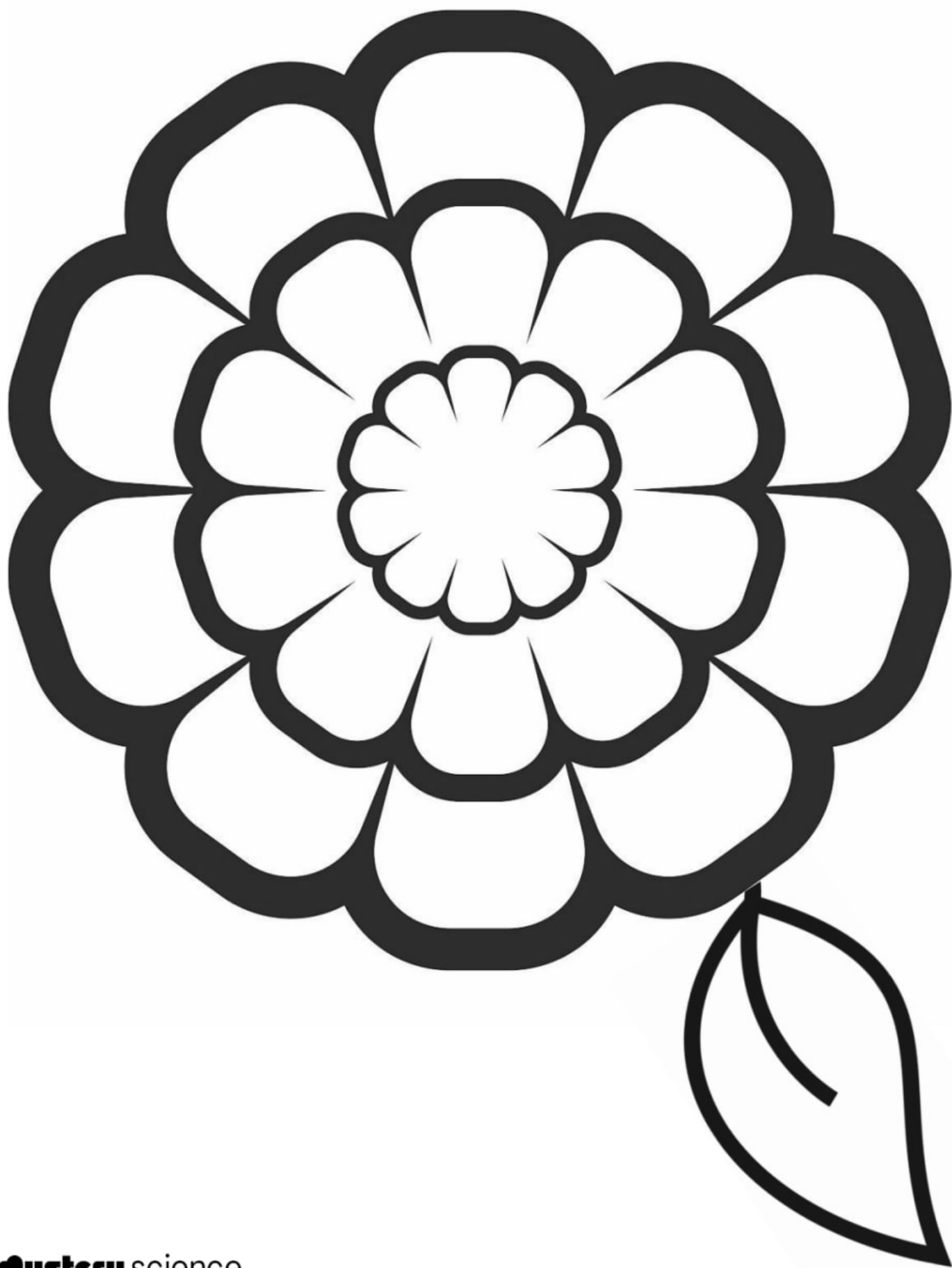
Two ways people make sounds for cartoons are...

Name: _____

1. Draw a musical instrument making sounds.



2. The instrument makes sounds by...



mystery science

What if there were no windows?

see through



mystery science

What if there were no windows?

kind of
see through



mystery science

What if there were no windows?

not see through

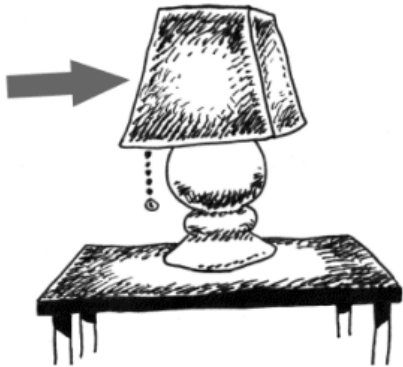


mystery science

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)

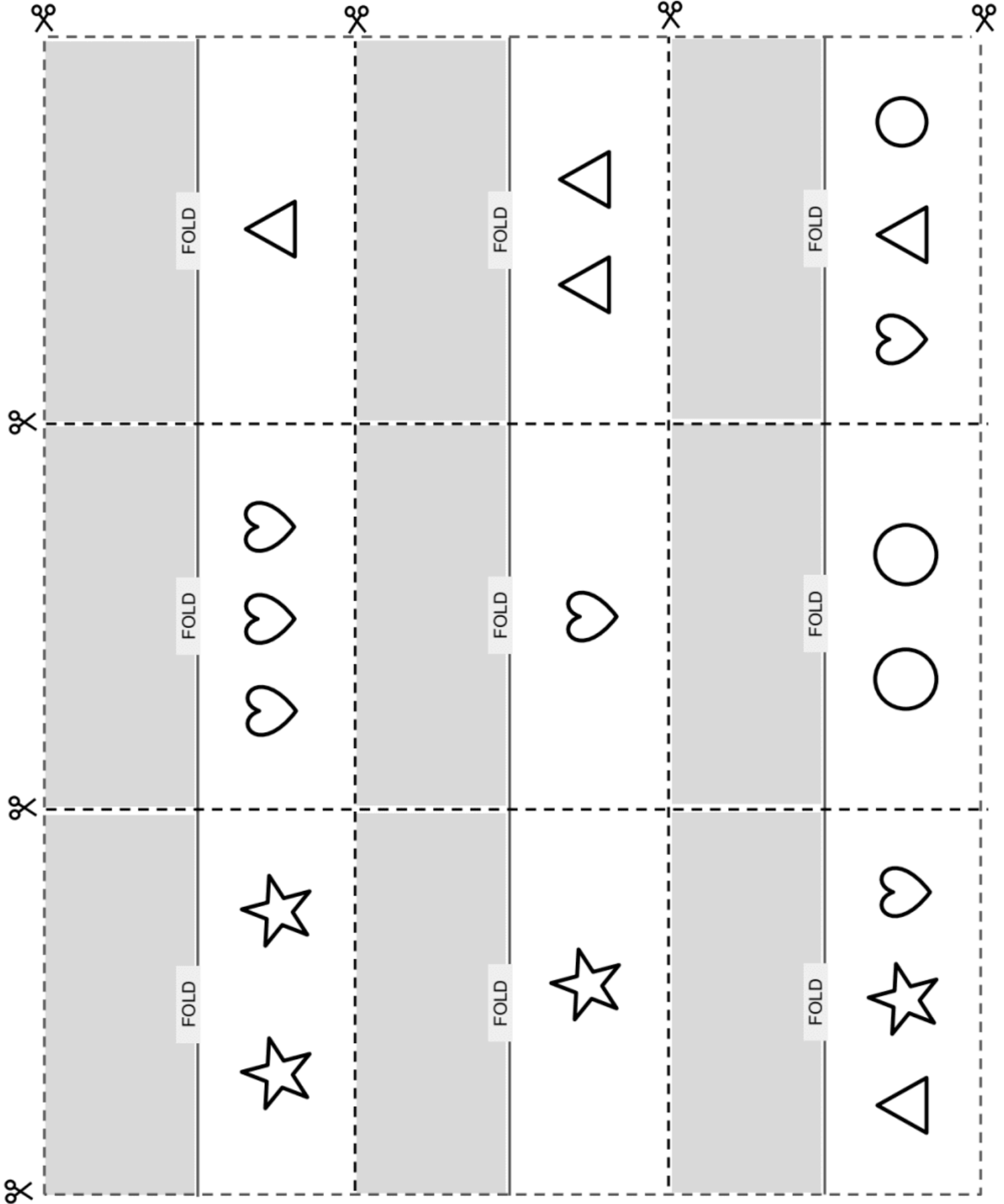


opaque
(not see-through)

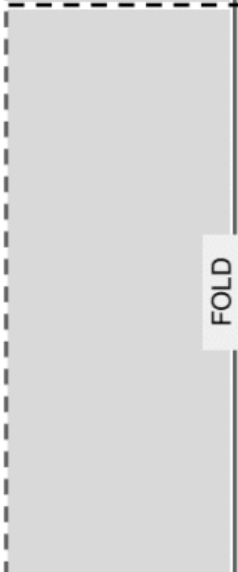
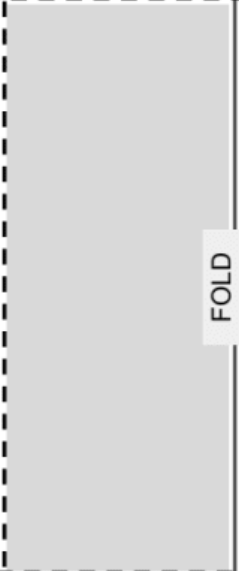
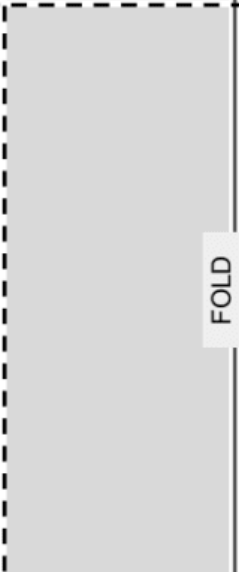
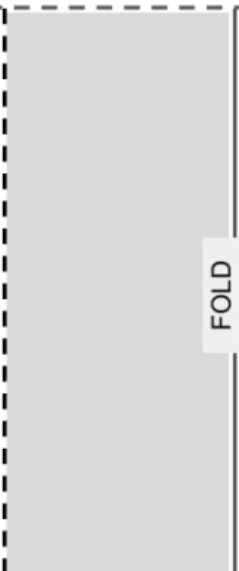
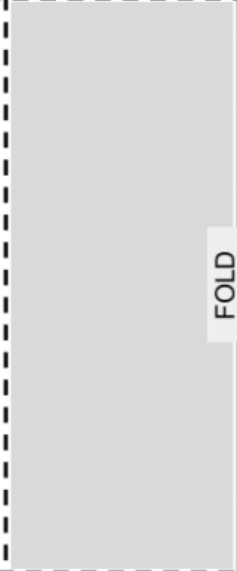
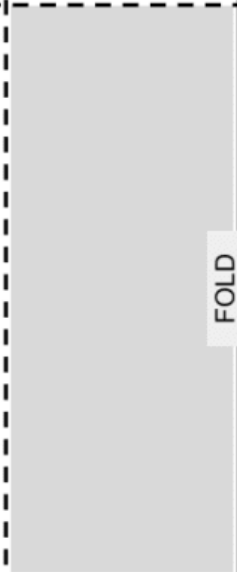
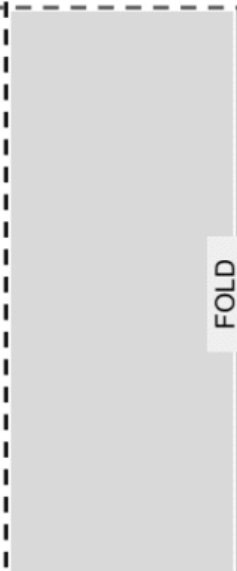
2. If there were no transparent materials...

INSTRUCTIONS:

Cut and fold. Color the shapes different colors.



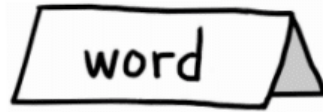
INSTRUCTIONS: Cut and fold.

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

How to Play “Dark Box”

1 Find someone to play with.

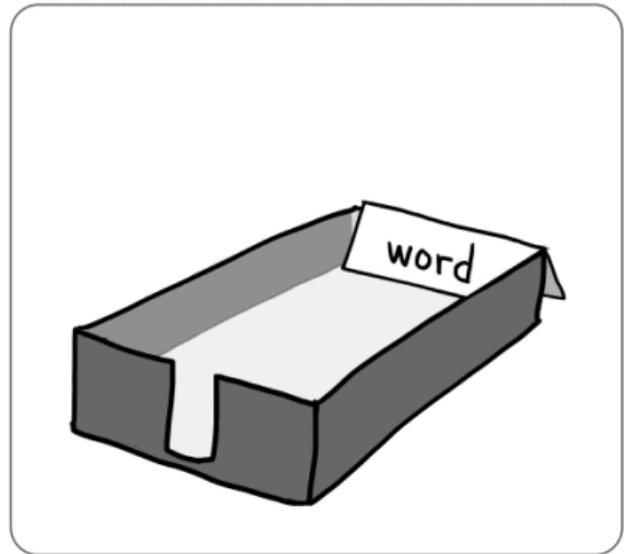
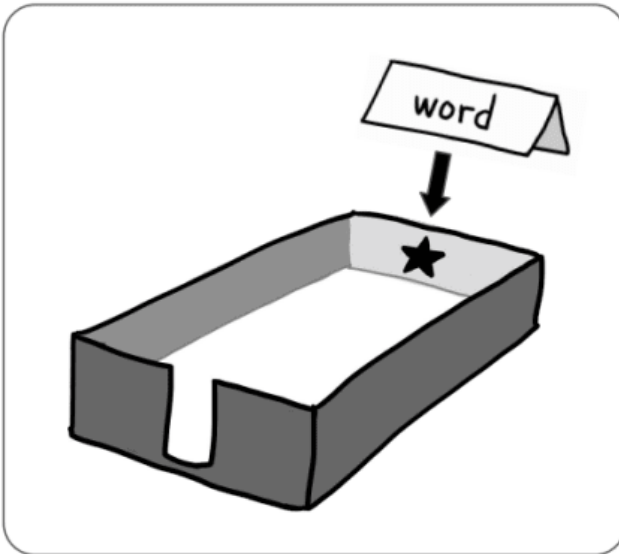
2 Pick a word or shape card.



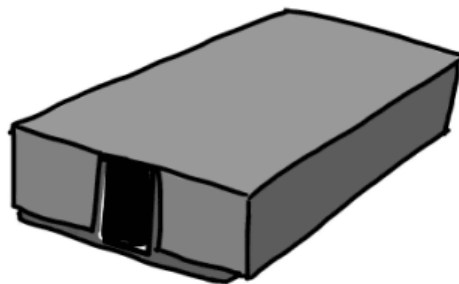
3 Don't show the other person.



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

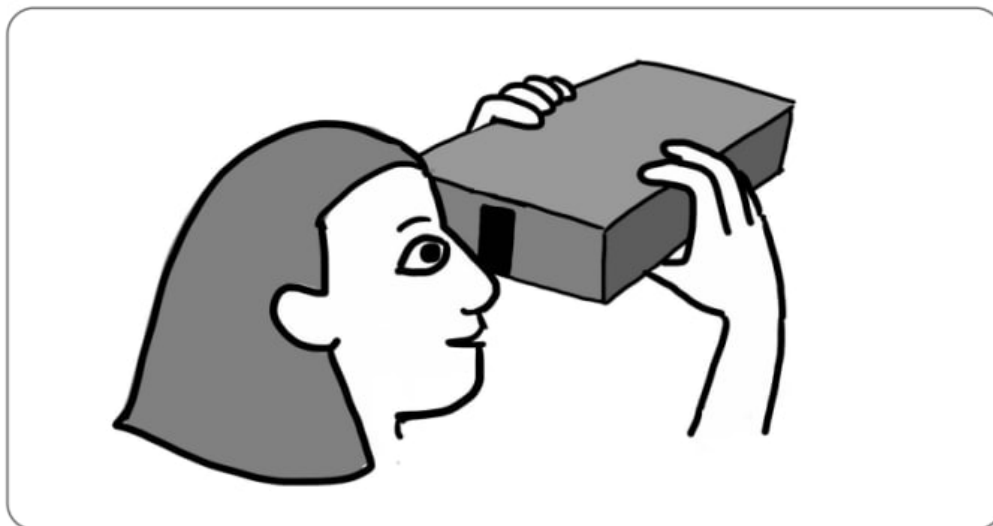


5 Close the box.



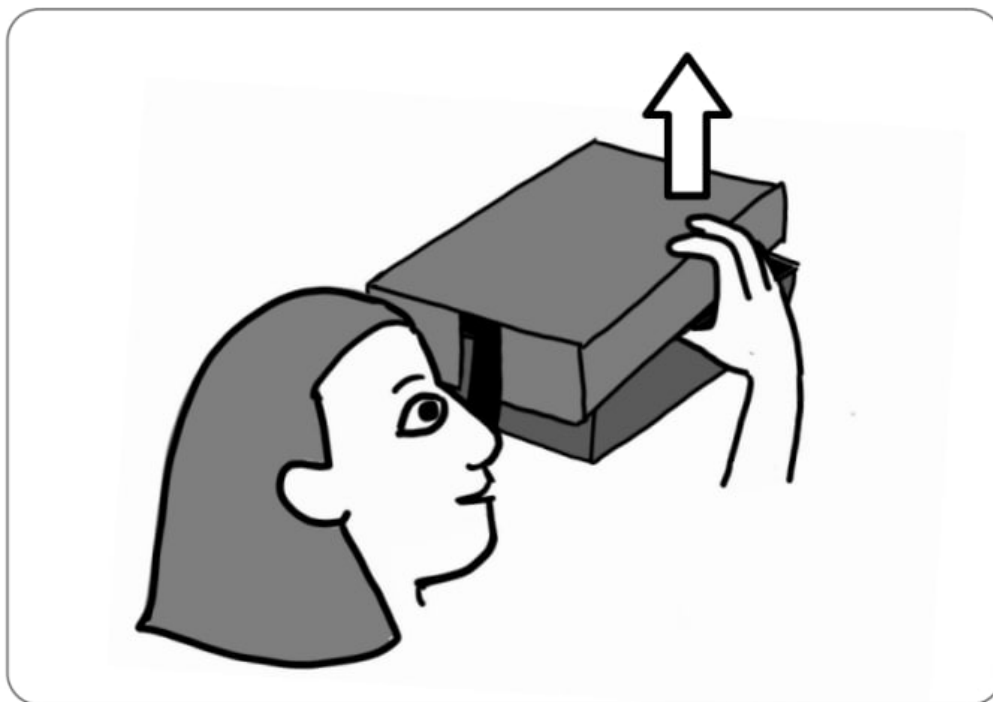
6

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.

Name: _____

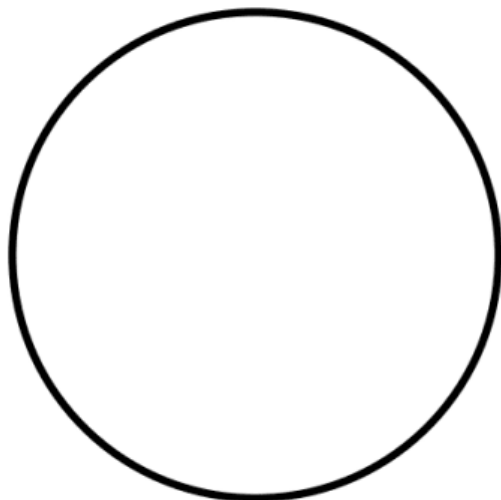
1. Circle all the places light is coming from.



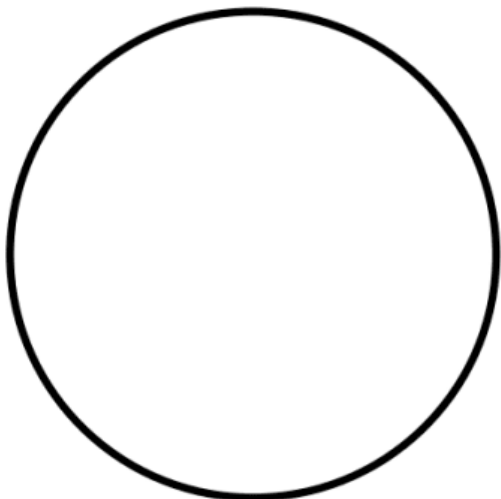
2. If light were not coming from any of those places, what would the driver see?

Name →

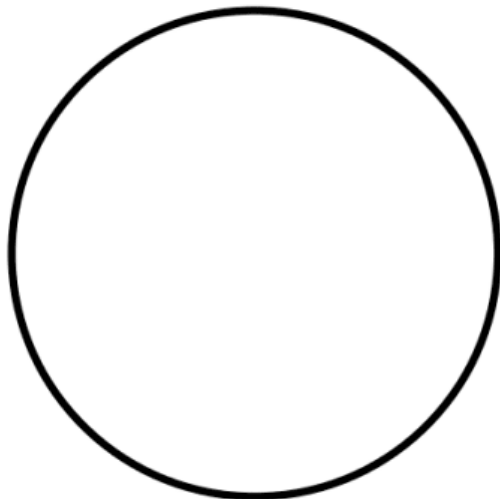
Color Codes



What does this color mean?



What does this color mean?

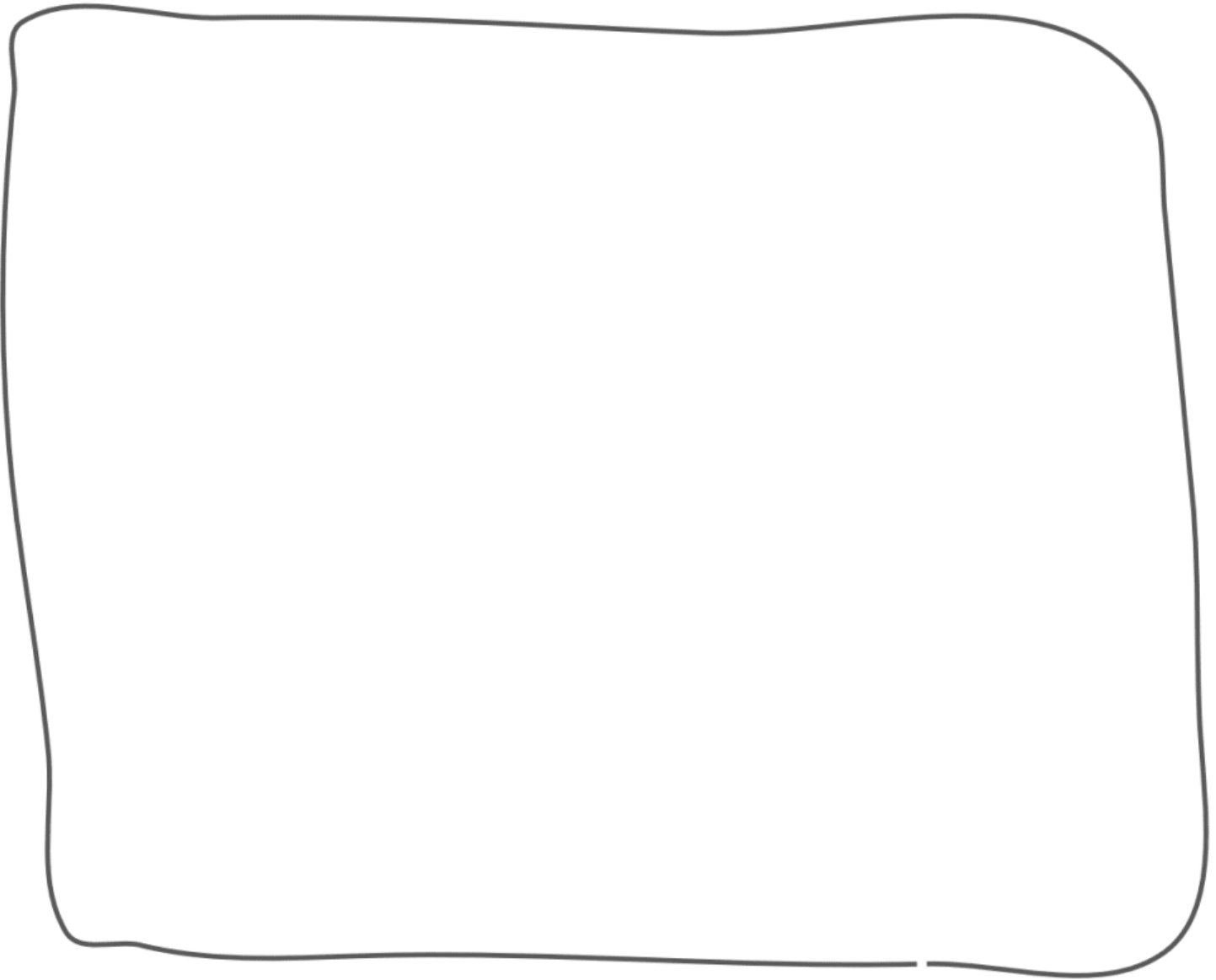


What does this color mean?

mystery science

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

Name: _____

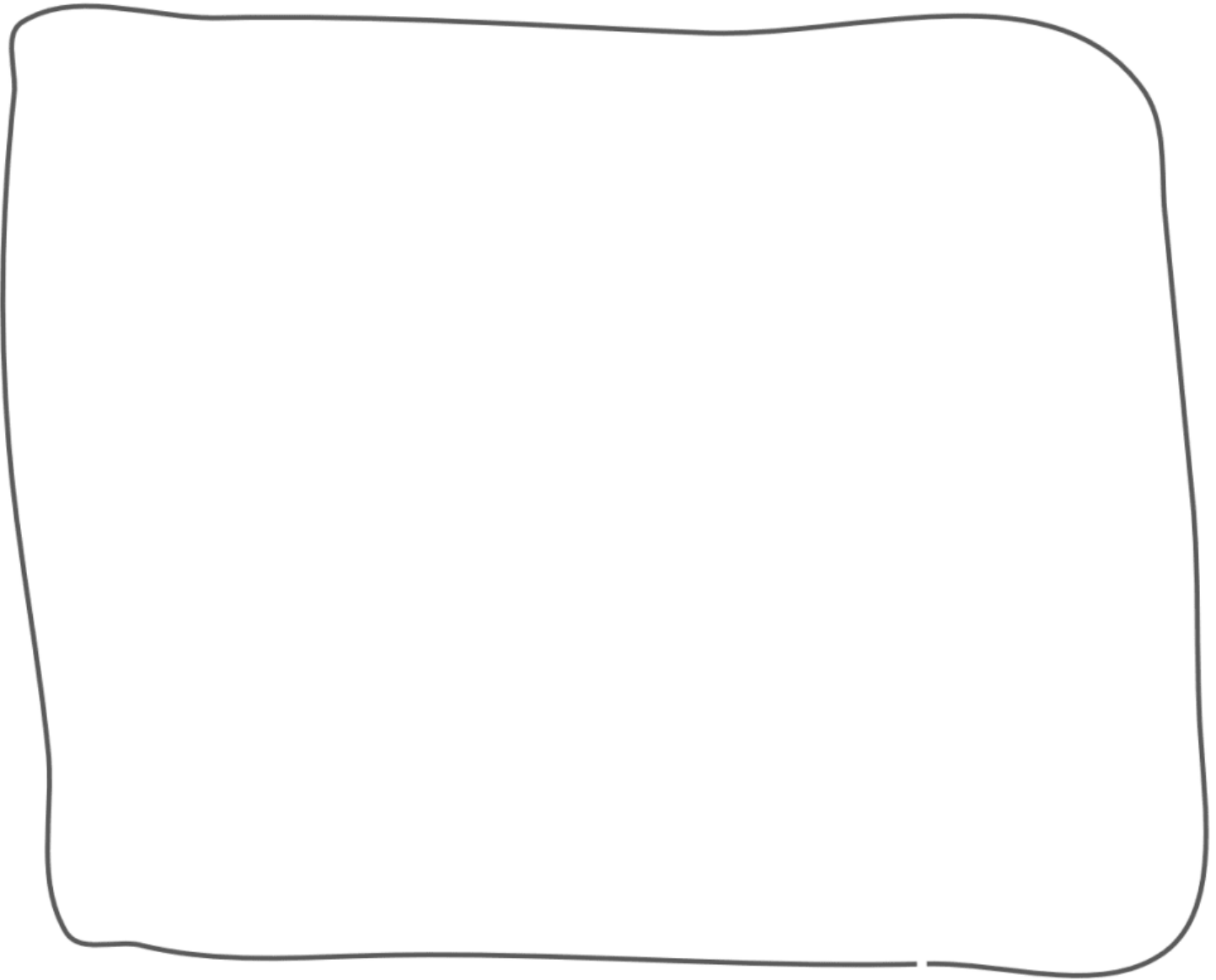


Draw and write your ideas.

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



Name: _____



Draw and write your ideas.

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

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 _____.



mystery science

Light, Sound, & Communication | Performance Task