

Name: _____

mystery science

First Grade

Student Booklet
With Anchor Layer

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 are baby birds so loud?

Lesson 4



Why do birds have beaks?

Lesson 5

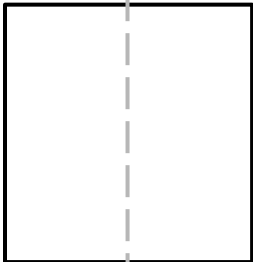


Why are polar bears white?

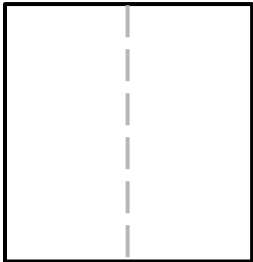
I am also curious about...

Color a squirrel

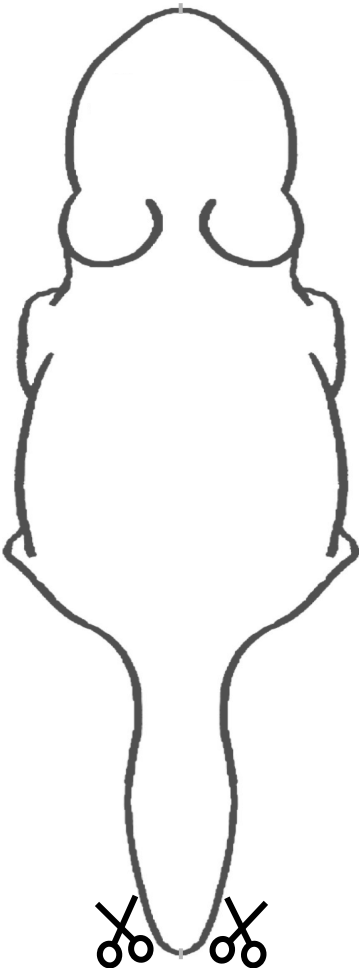
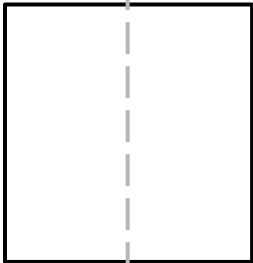
color test
square 1



color test
square 2



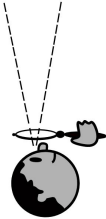
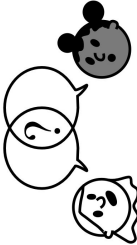
color test
square 3



See-Think-Wonder Chart

mystery science

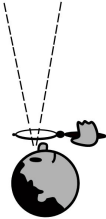
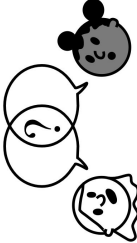
Name: _____

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

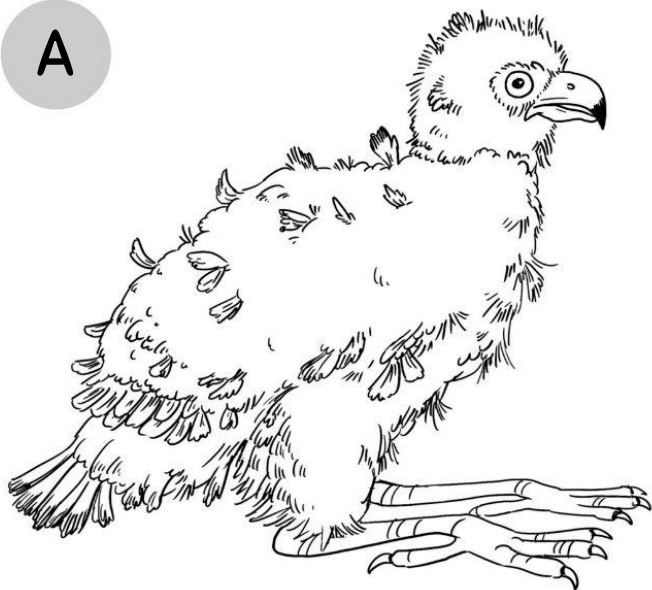
See-Think-Wonder Chart

mystery science

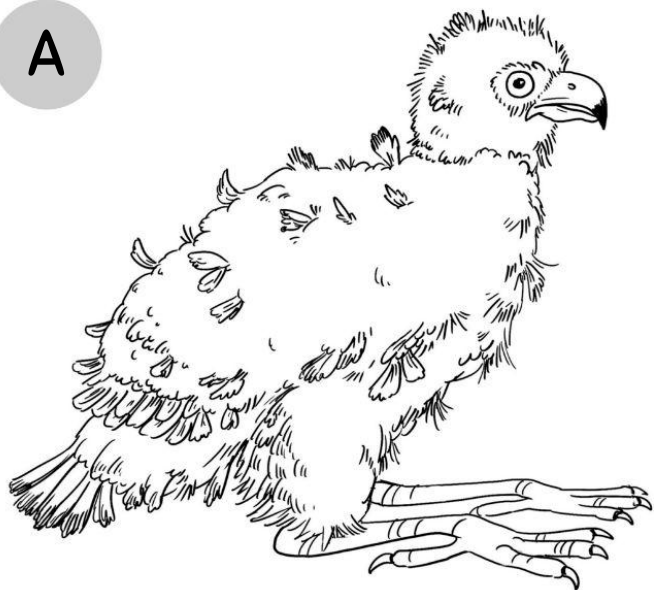
Name: _____

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

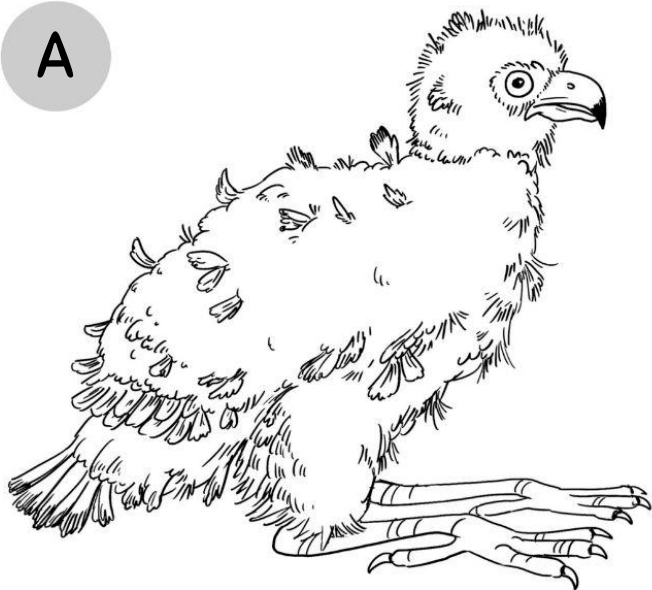
A



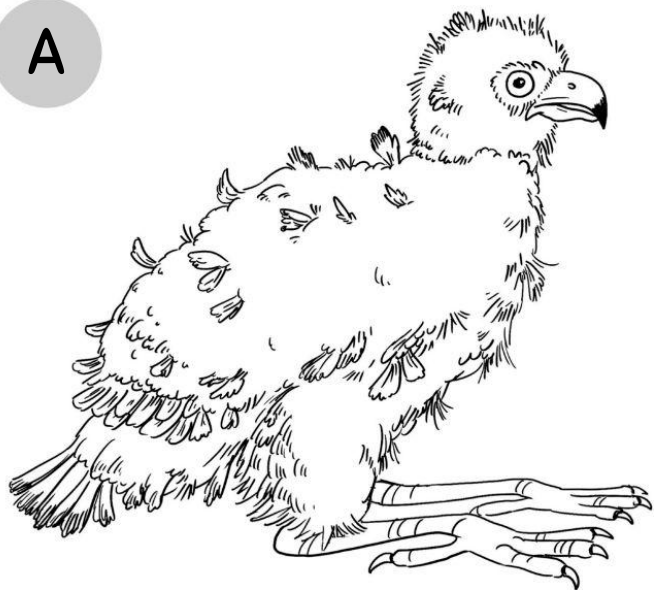
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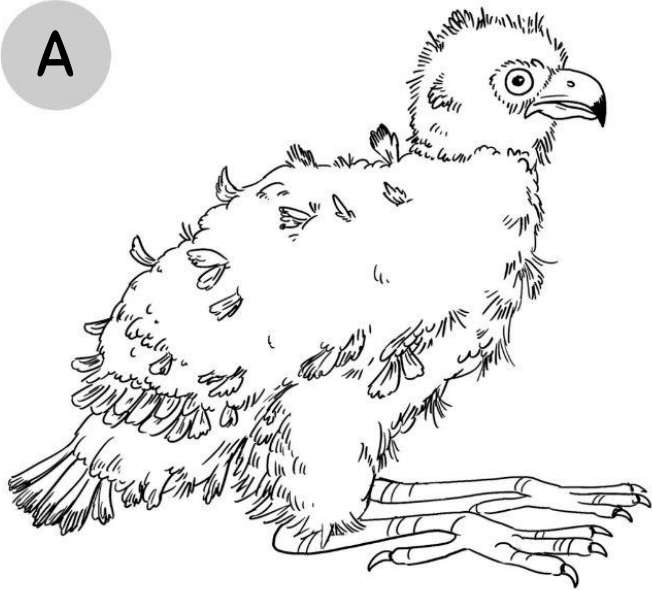
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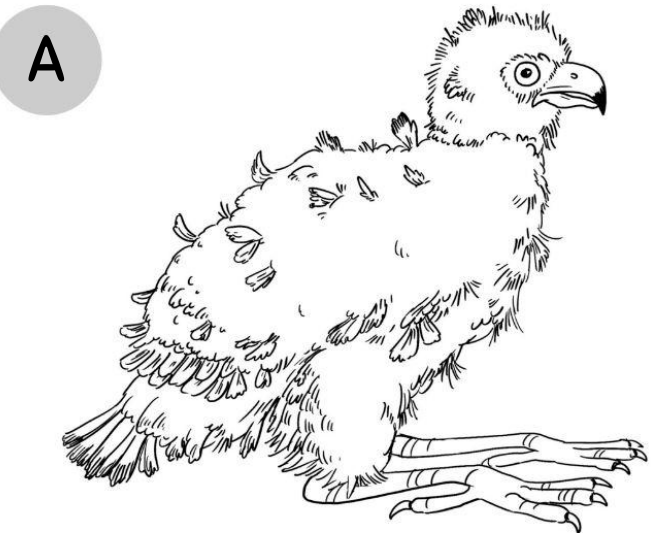
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A



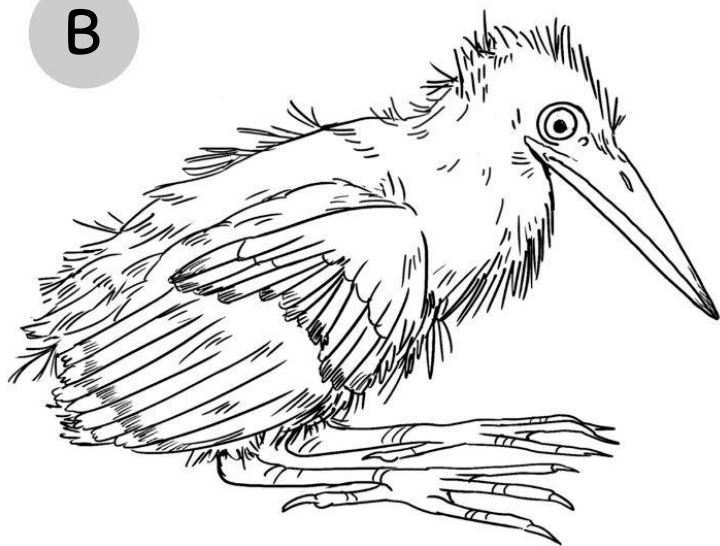
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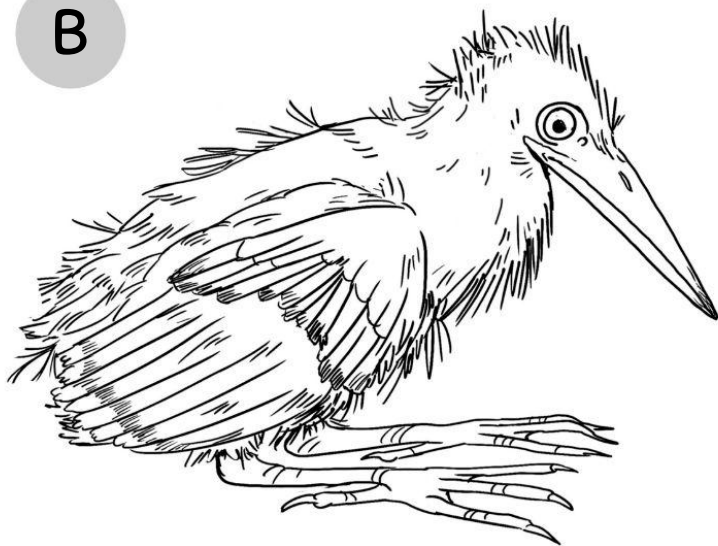
mystery science

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

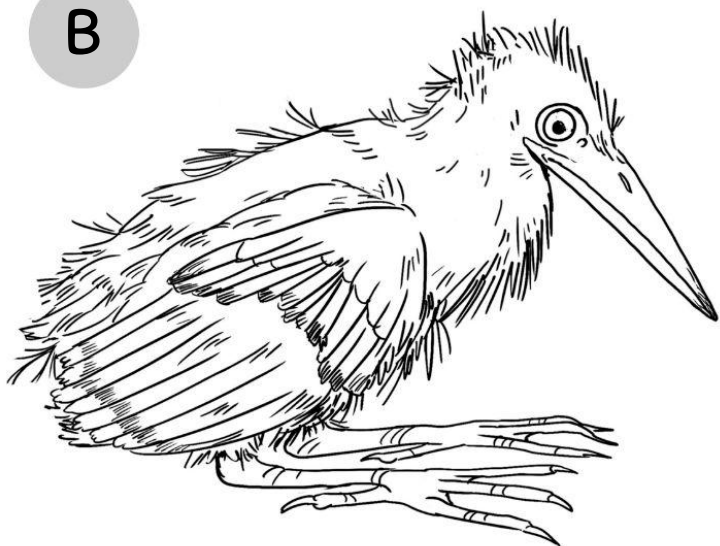
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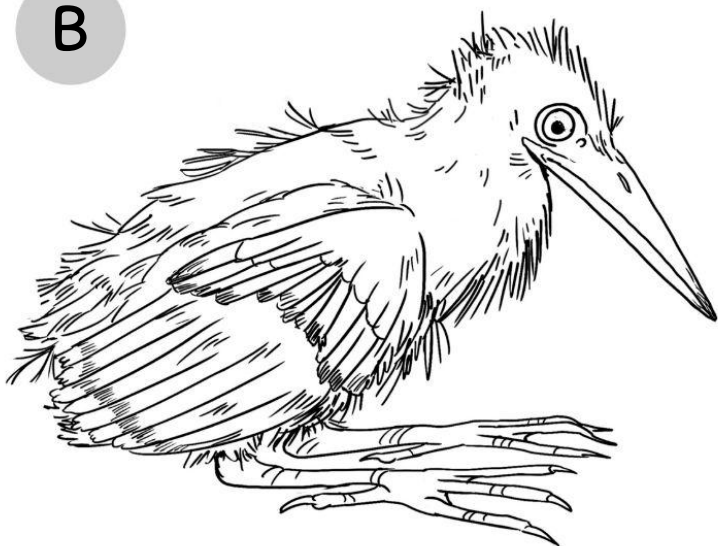
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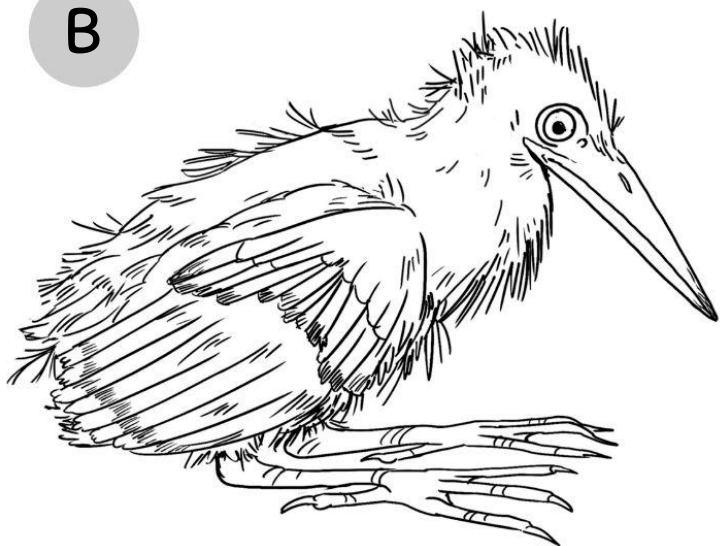
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B



B



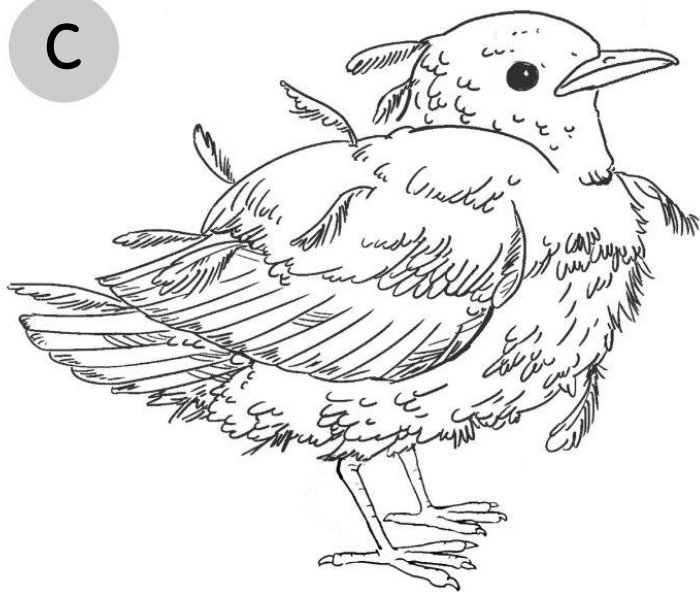
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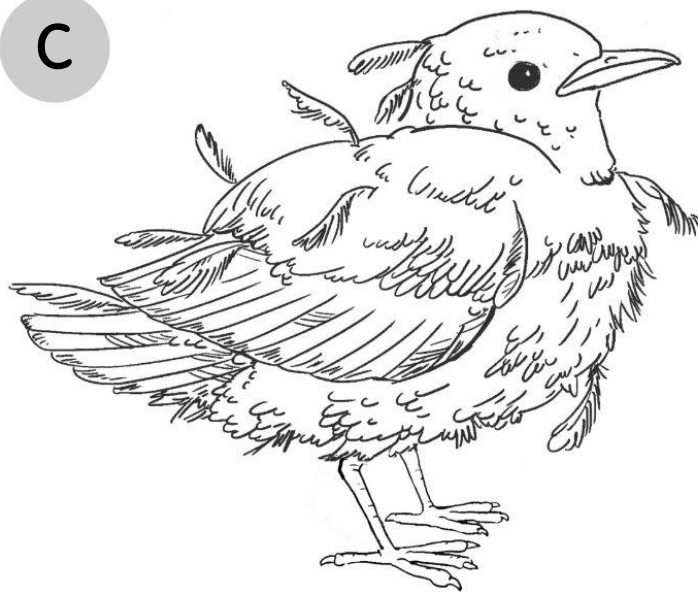
mystery science

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

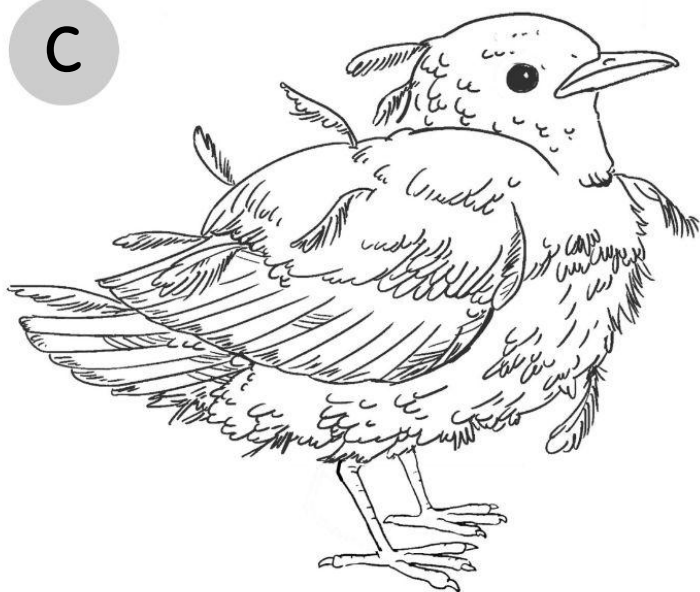
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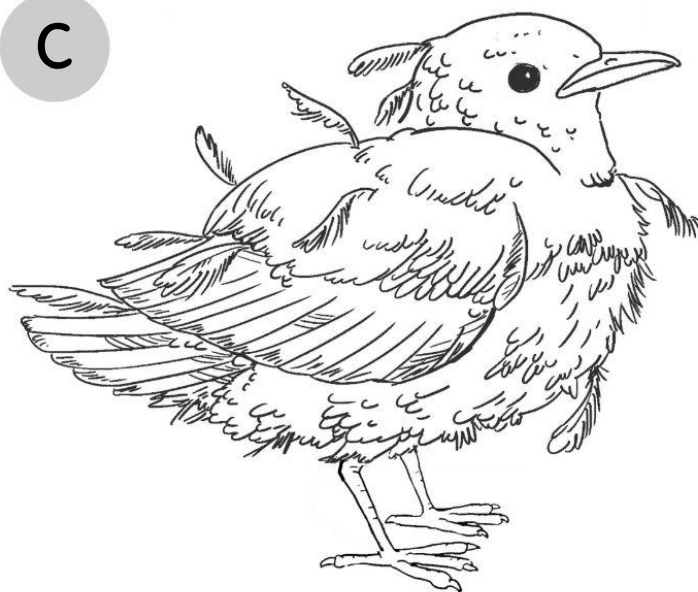
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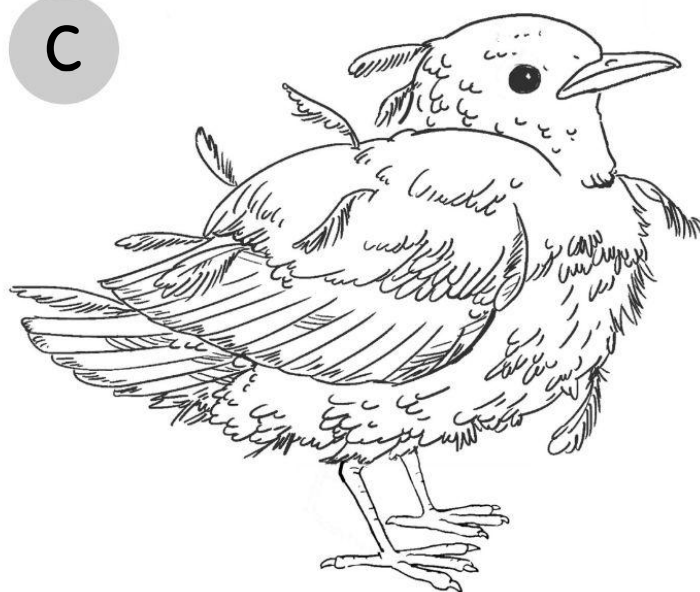
C



C



C



C

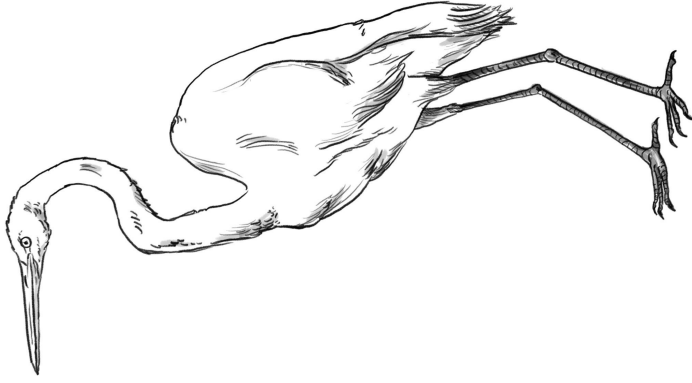


mystery science

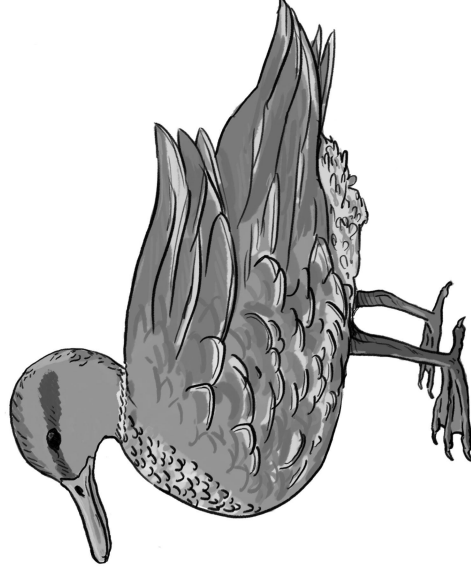
How can you help a lost baby animal find its parents?

Name:

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



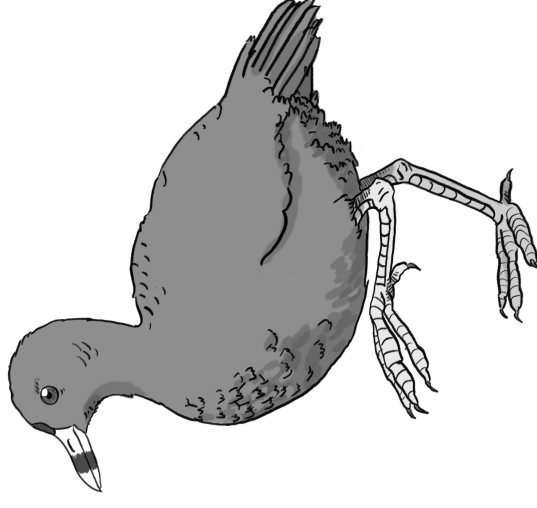
Adult #1



Adult #2



Baby Bird



Adult #3

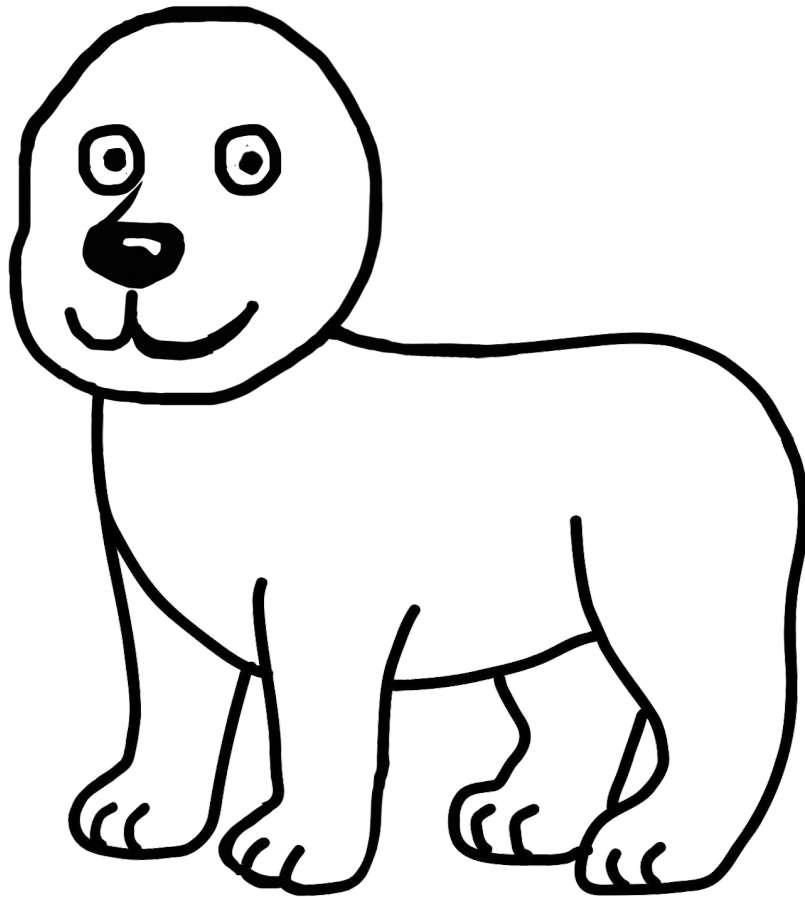
mystery science

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

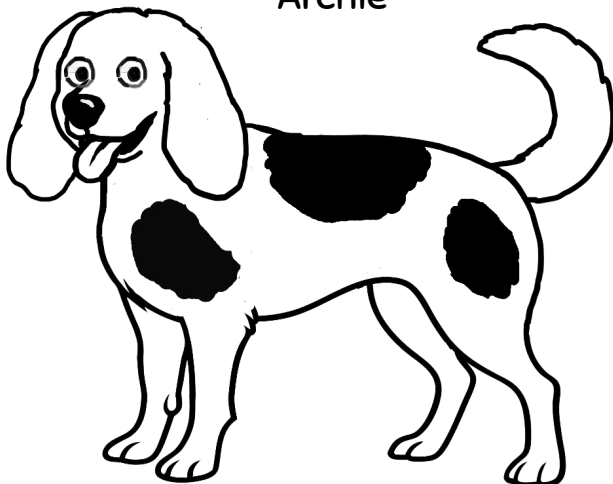
Puppy Parents

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

Name: _____

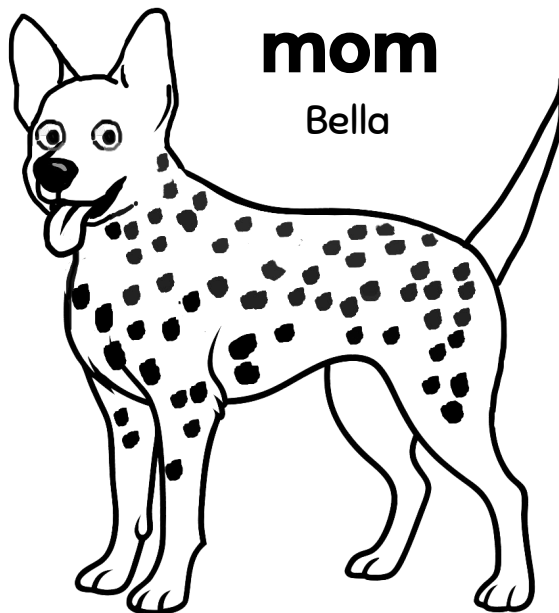
dad

Archie



mom

Bella



Ears



floppy



pointy

Tail



curly



straight

Eyes



brown



blue

Fur



yellow



brown

Spots



big

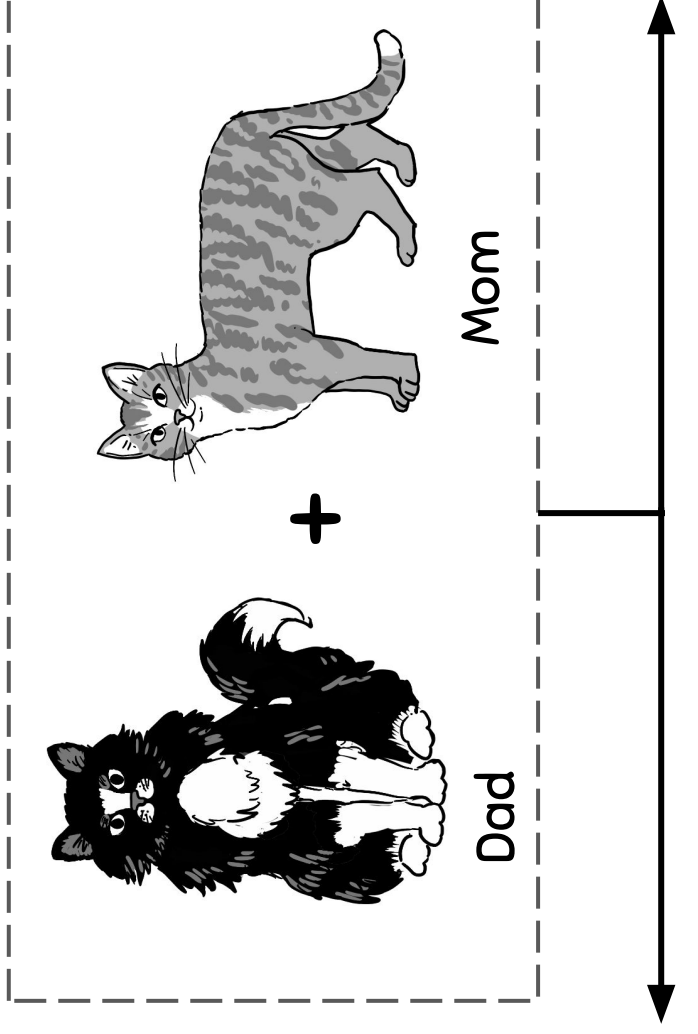


little

Name: _____

mystery science

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



Circle the answers.

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).

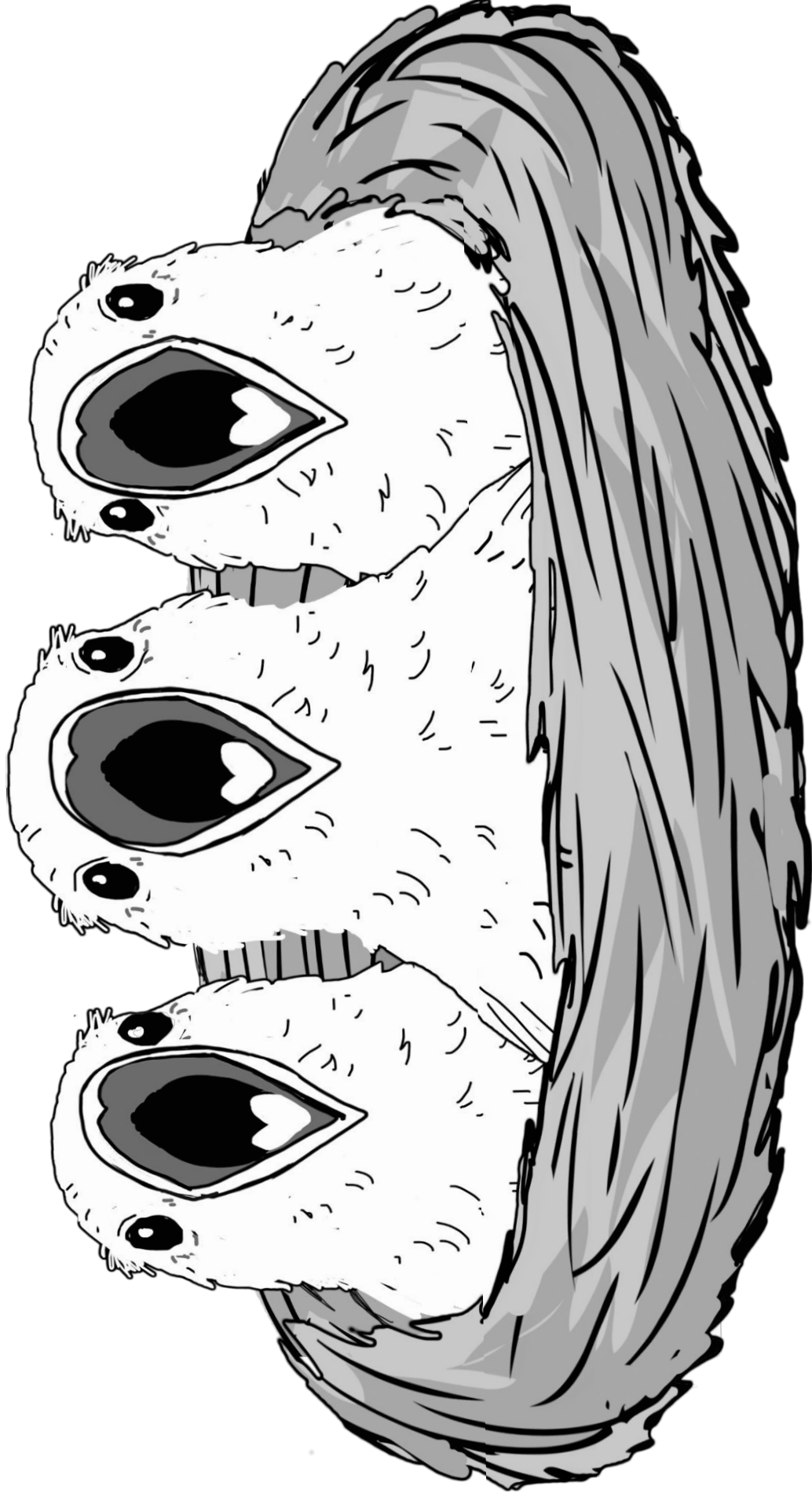
2. These kittens look a little different from each other because

Name: _____

Baby Birds Get the Worms!

mystery science

Why are baby birds so loud?



Animal parents help their babies by _____

Name: _____

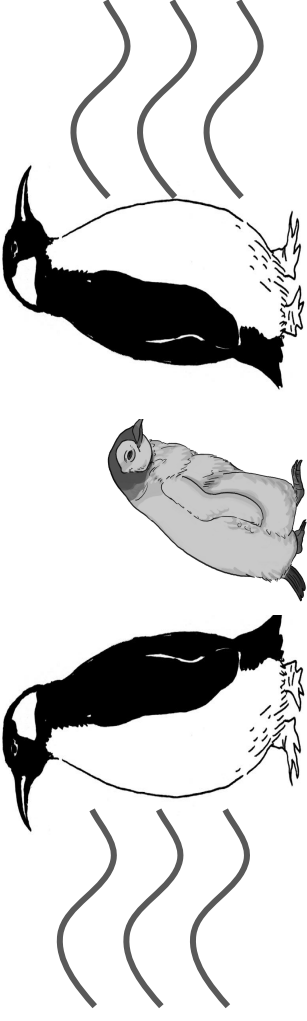
Circle the correct answers.

Penguin babies make loud sounds to let their parents know they are hungry.



1. This is a behavior of the (baby/parent) that helps the baby (get food/stay safe).

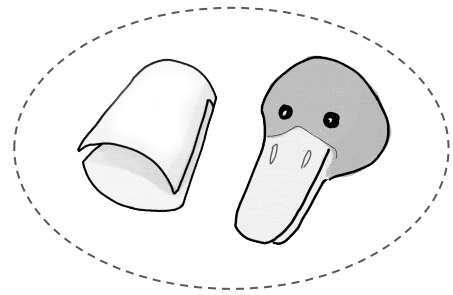
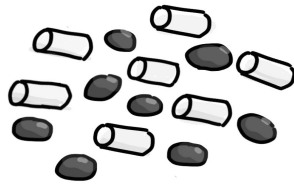
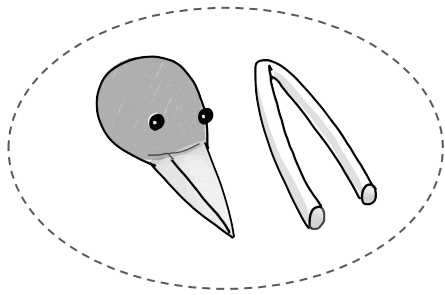
Penguin parents block the very cold wind so that their baby can stay warm.



2. This is a behavior of the (baby/parent) that helps the baby (get food/stay safe).

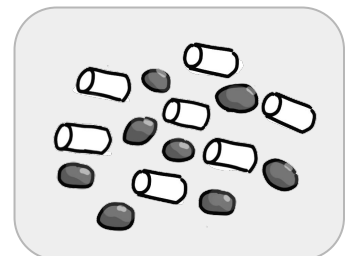
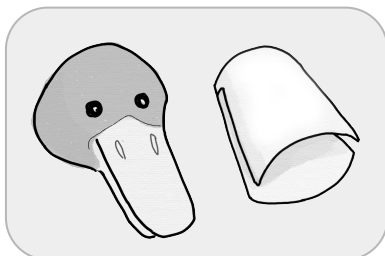
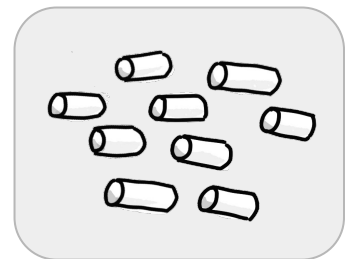
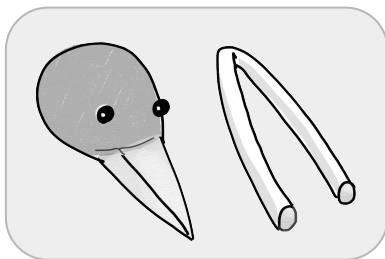
Name: _____

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



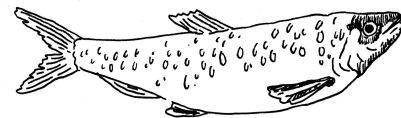
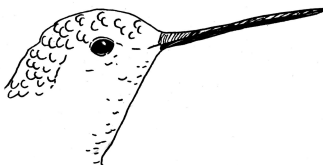
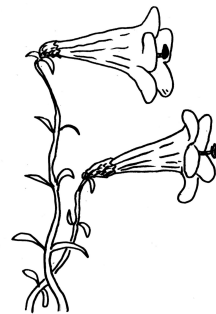
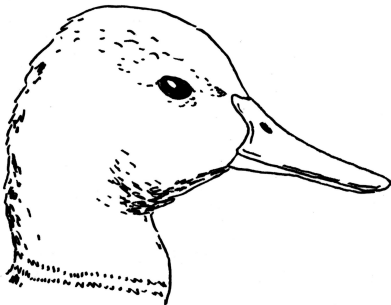
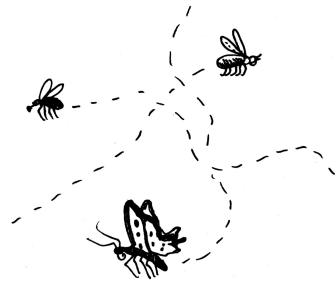
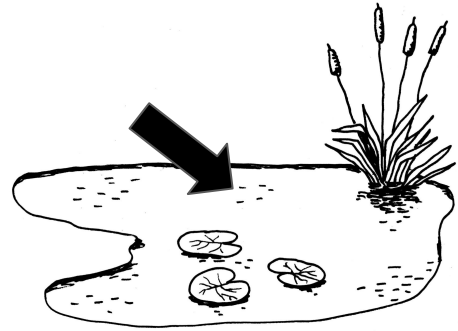
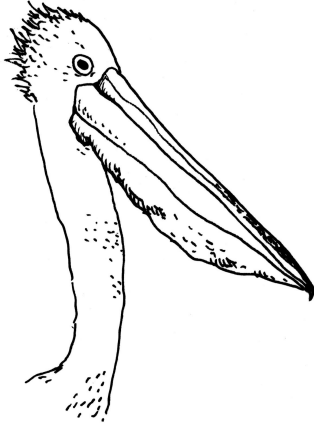
2. How many pieces did you get? ____

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



Name: _____

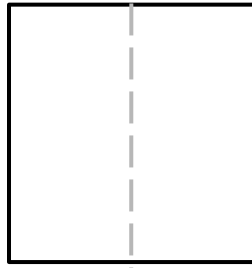
1. Match each bird with its food.



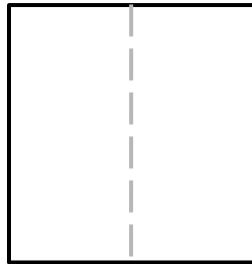
2. We can figure out what a bird eats by

Color a moth

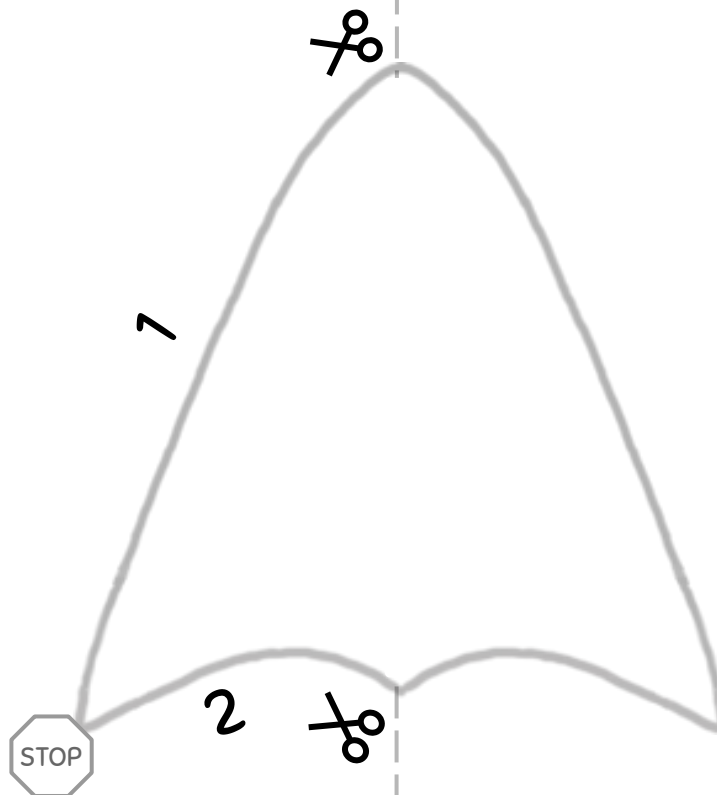
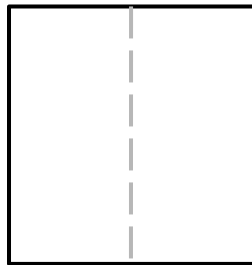
color test
square 1



color test
square 2

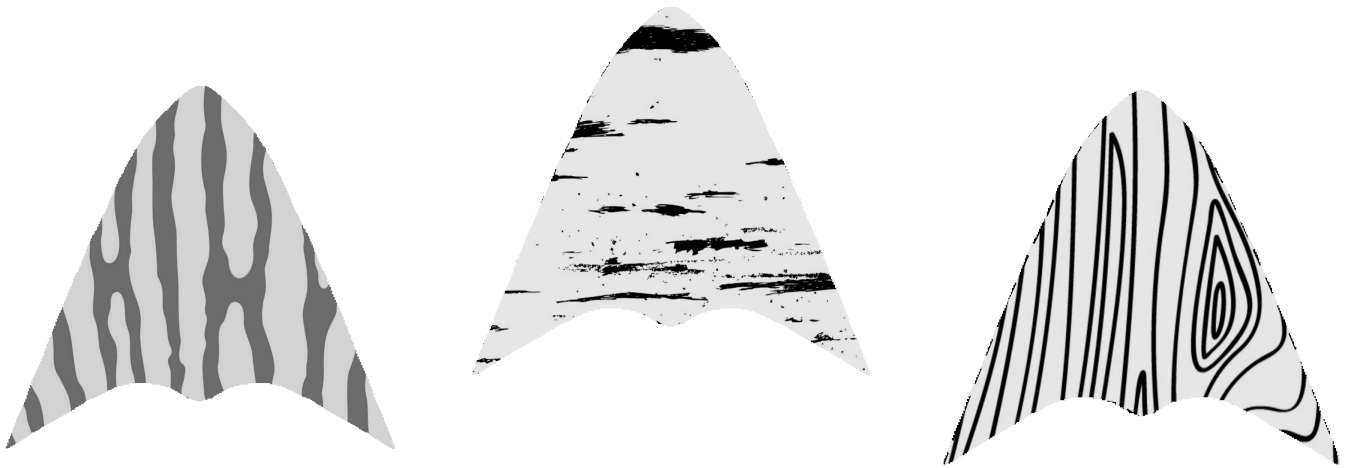


color test
square 3



Name: _____

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



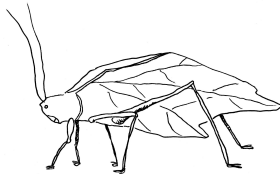
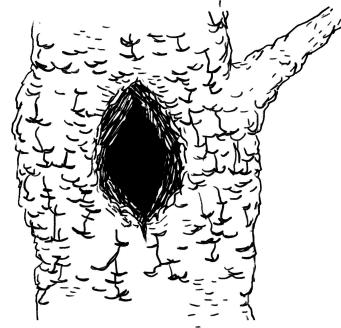
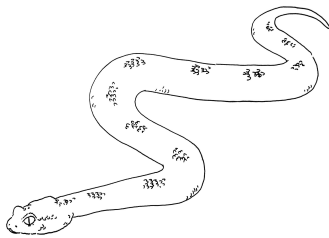
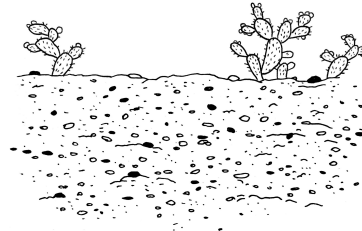
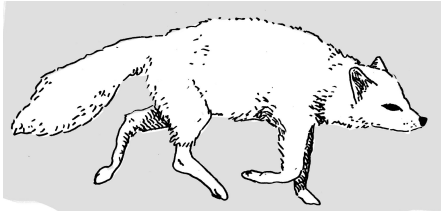
**Circle the number of moths you
find:**

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?

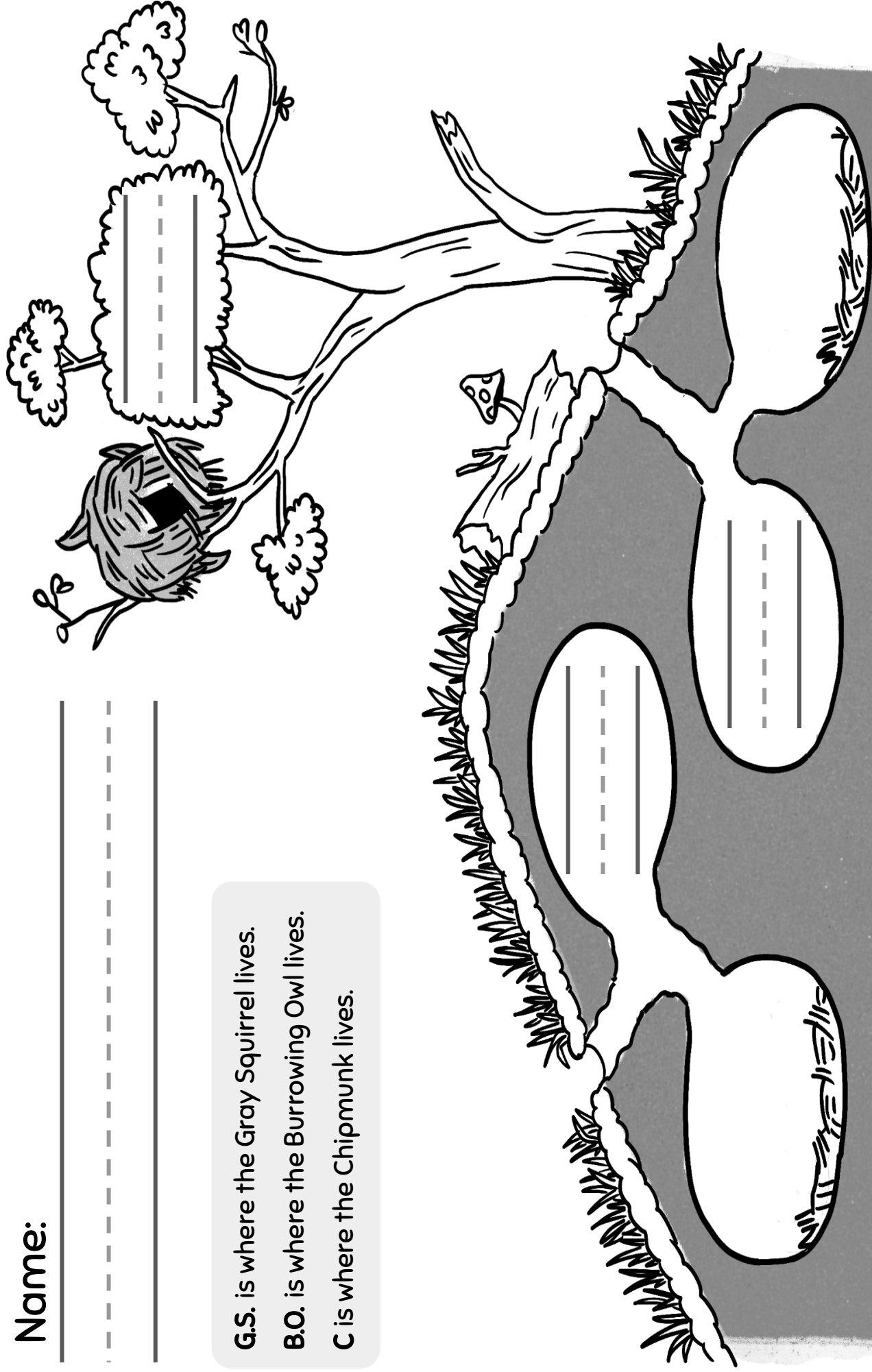
Animal Homes

Name: _____

G.S. is where the Gray Squirrel lives.

B.O. is where the Burrowing Owl lives.

C is where the Chipmunk lives.



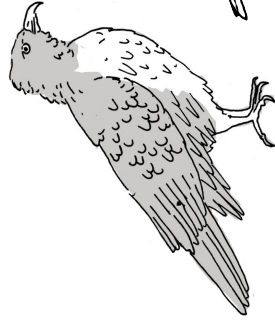
Name: _____

WE DO:

Draw a line from the
baby bird to its parent.



baby

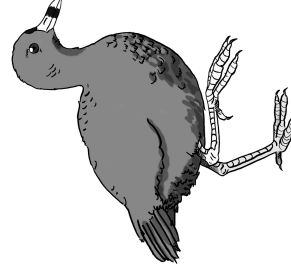
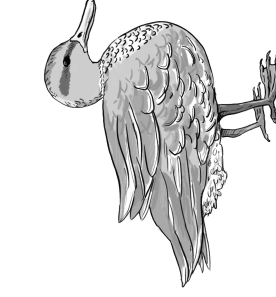


YOU DO:

1. Draw a line from the
baby bird to its parent.



baby



LET'S TALK: How can you tell which bird is the parent?

WE DO:

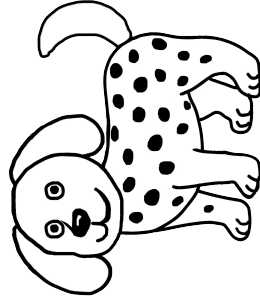
Circle the traits of the
puppy that are like the
dad's traits.



dad



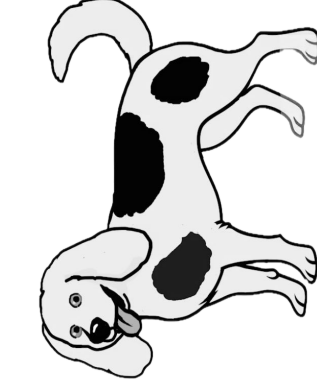
mom



puppy

YOU DO:

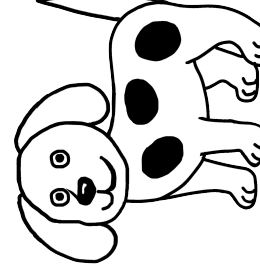
2. Circle the traits of the
puppy that are like
the dad's traits.



dad



mom

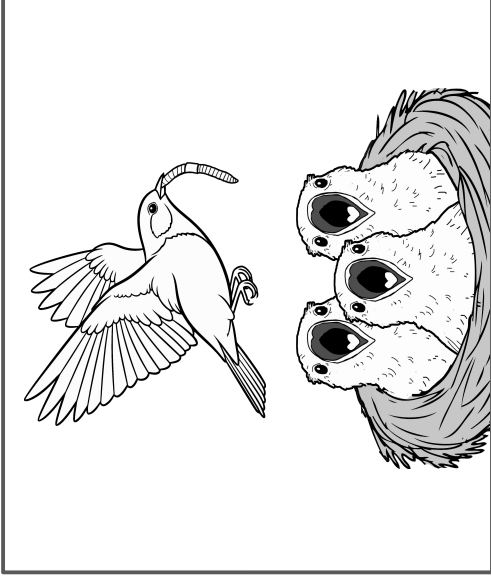


puppy

LET'S TALK: Why does the puppy look a bit different from its dad?

WE DO:

Draw a line from the
baby's behavior to
what it needs.



food

warmth

safety

YOU DO:

3. Draw a line from the
baby's behavior to
what it needs.



food

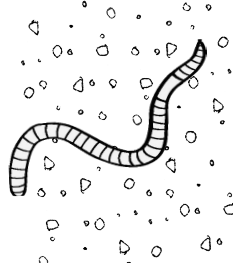
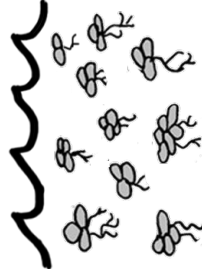
warmth

safety

LET'S TALK: Why do baby birds chirp loudly sometimes? Why are they quiet some other times?

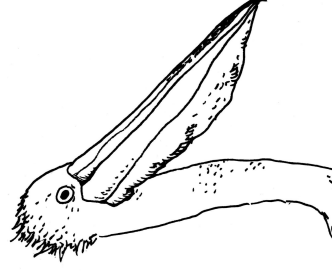
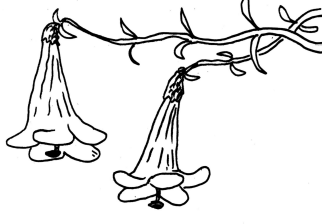
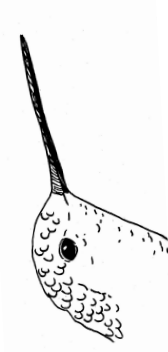
WE DO:

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



YOU DO:

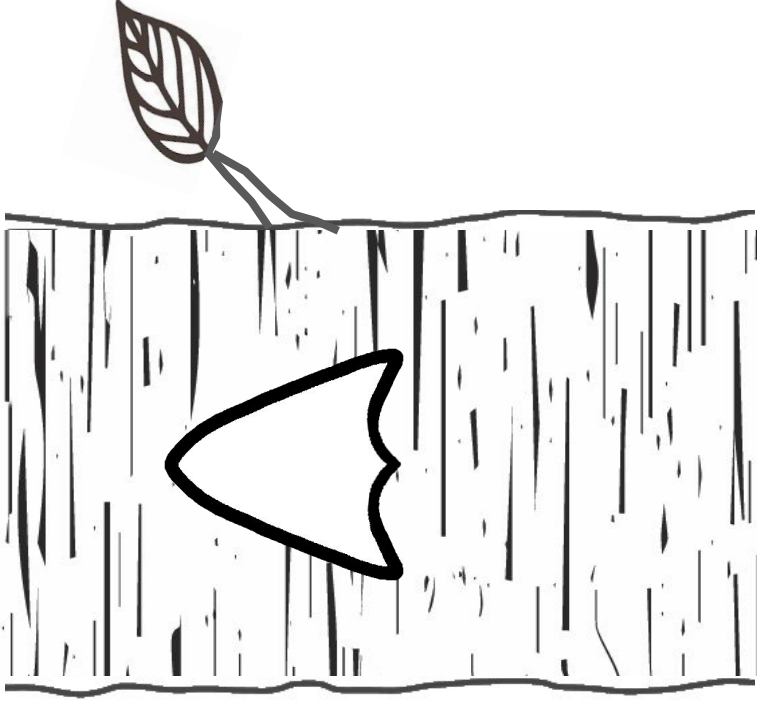
4. Draw a line from each
beak to the food it's best
at getting.



LET'S TALK: How can the shape of a bird's beak help us figure out what it eats?

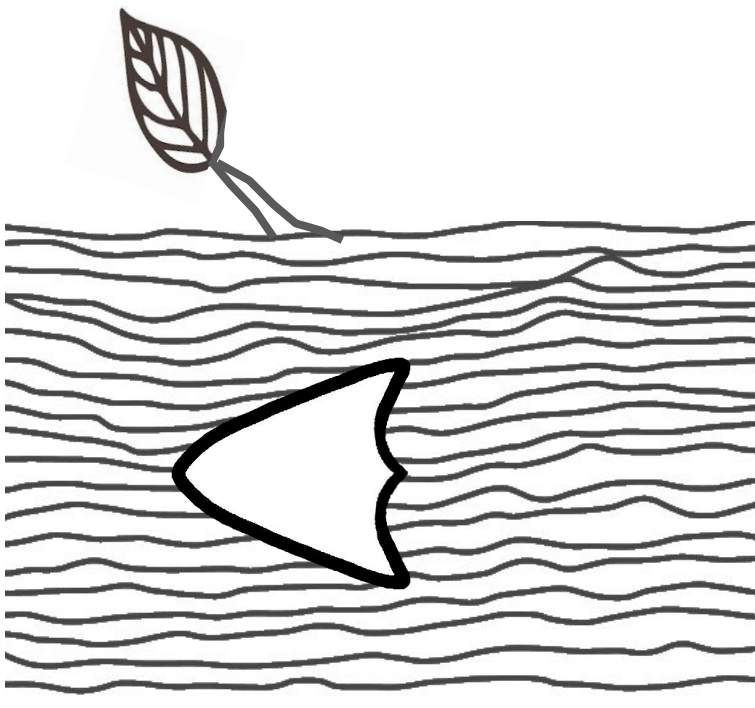
WE DO:

**Draw lines on the moth
so that it blends in here.**



YOU DO:

**5. Draw lines on the moth
so that it blends in here.**



LET'S TALK: How does blending in with trees where it lives help a moth?

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



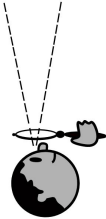
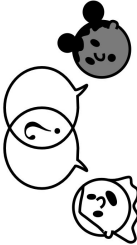
What do sunflowers do when you're not looking?

I am also curious about...

See-Think-Wonder Chart

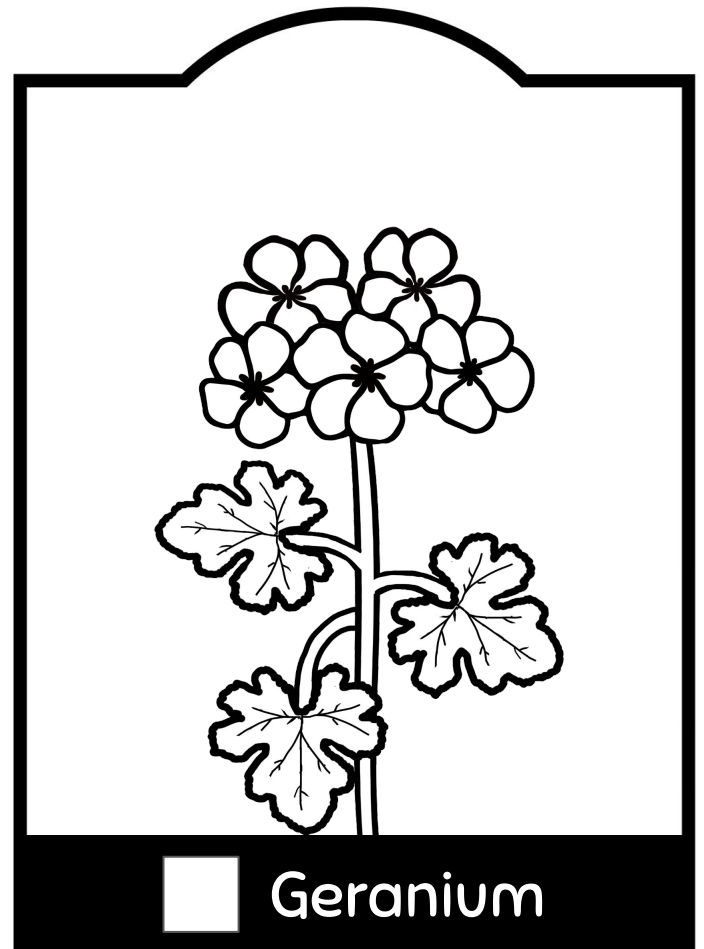
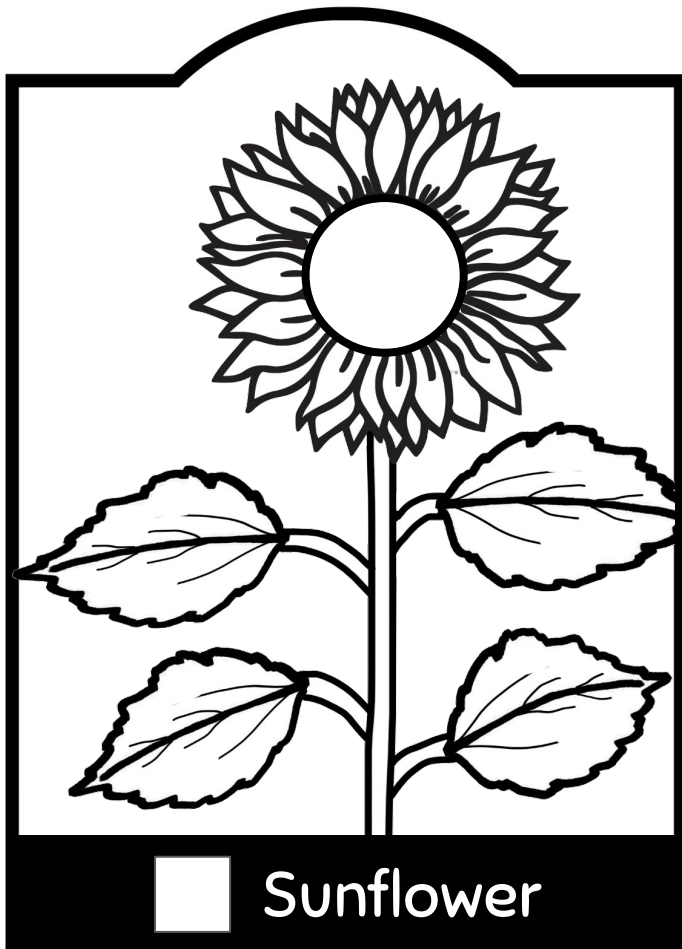
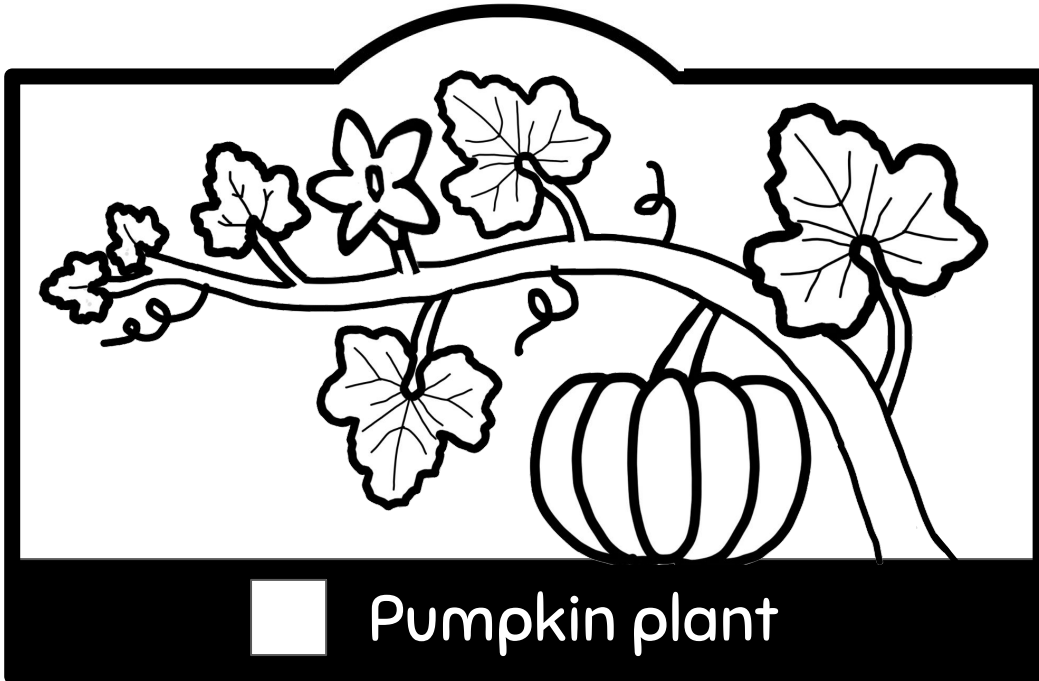
mystery science

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.



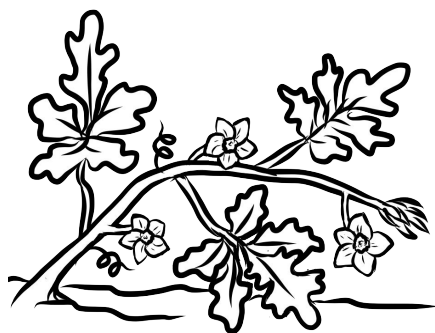
Seedling A



Seedling B



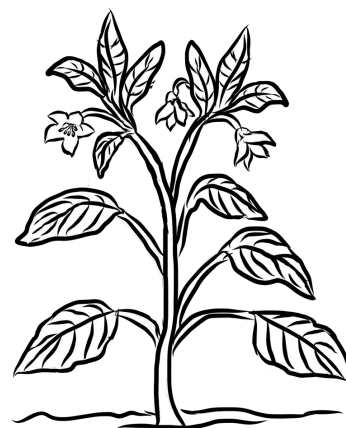
Seedling C



Watermelon
Adult Plant #1



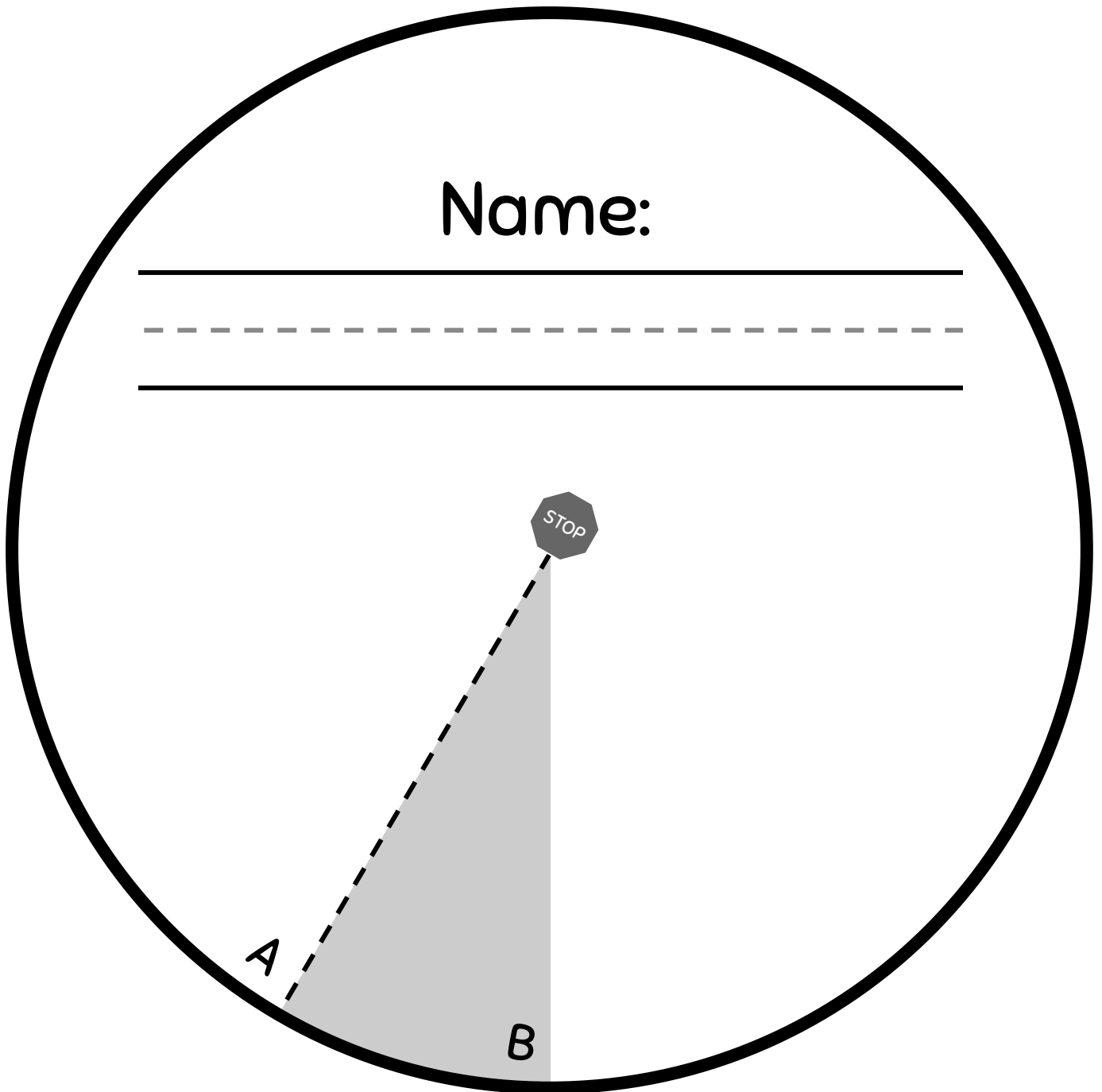
Tomato
Adult Plant #2



Pepper
Adult Plant #3

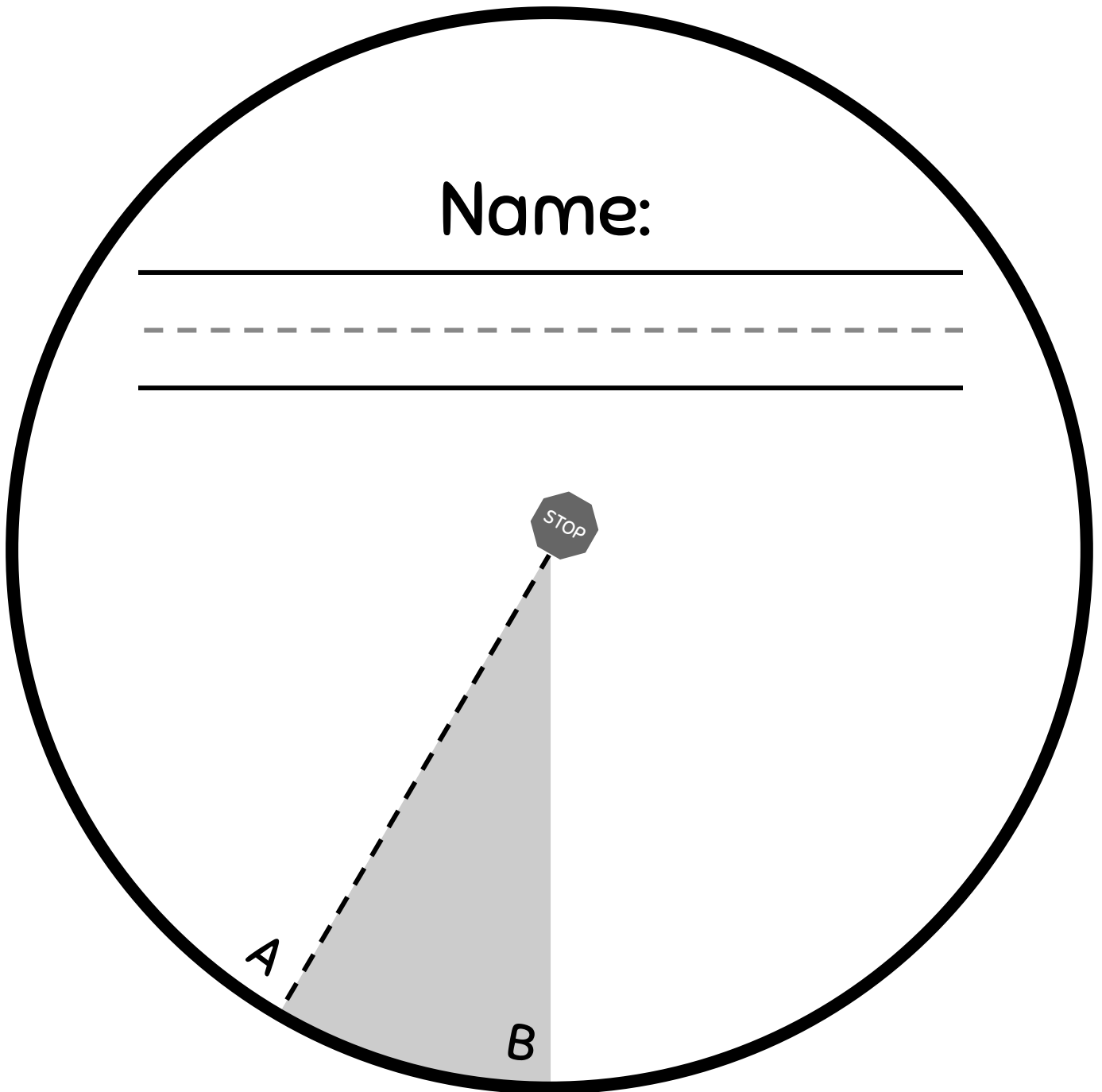
umbrella top

Name:



umbrella top

Name:



Name: _____

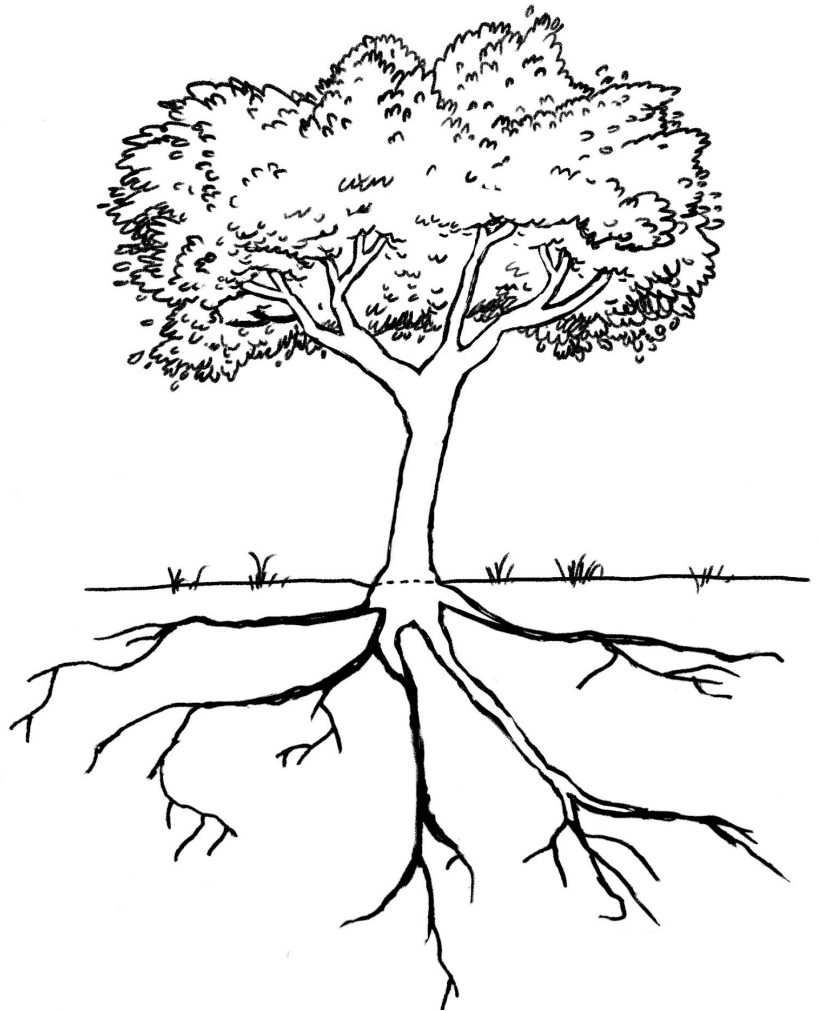
1. Draw an arrow from each word to that part of the tree.

trunk

branches

roots

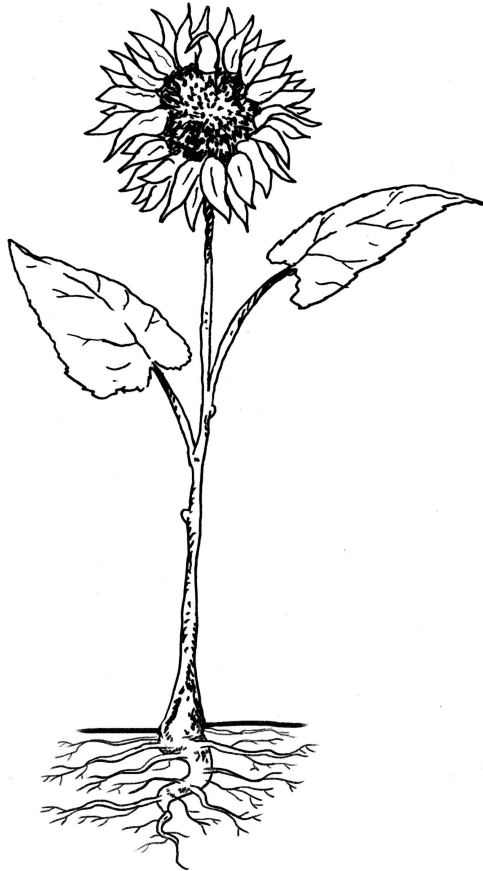
leaves



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

Name: _____

1. Draw two things the flower needs to grow.

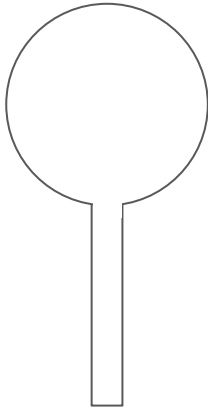


2. Describe two parts of the flower that help it get what it needs.

Tiny Water Lily

Name _____

Practice drawing your leaf:



Draw your final leaf:

mystery science

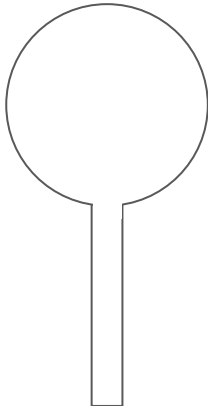
Plant Traits & Survival | Performance Task



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



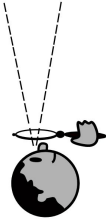
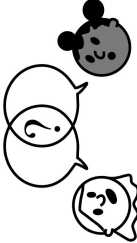
Why do you have to go to bed early in the summer?

I am also curious about...

See-Think-Wonder Chart

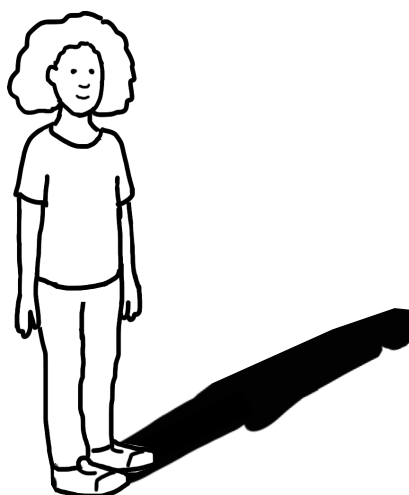
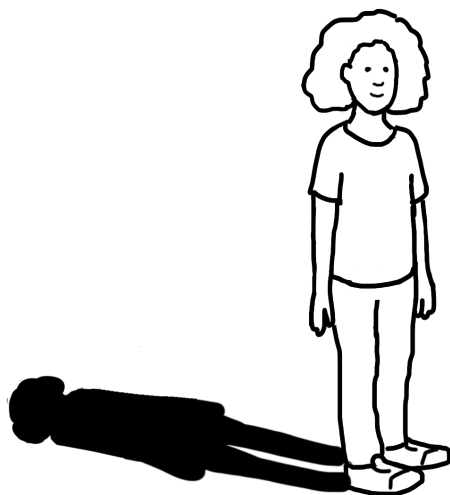
mystery science

Name: _____

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

Name: _____

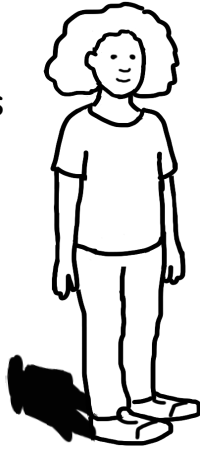
1. For each picture, look at where the woman's shadow is. Then, draw where the Sun is.



Name: _____

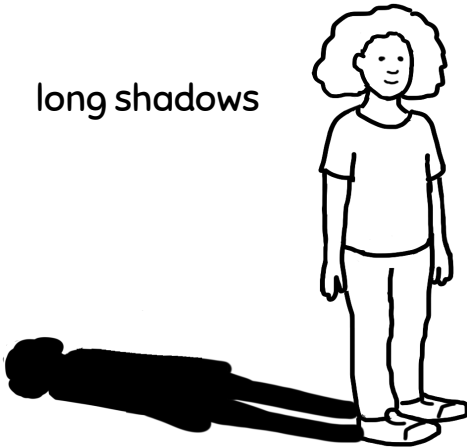
1. Match shadows to the time of day you would see them.

short shadows



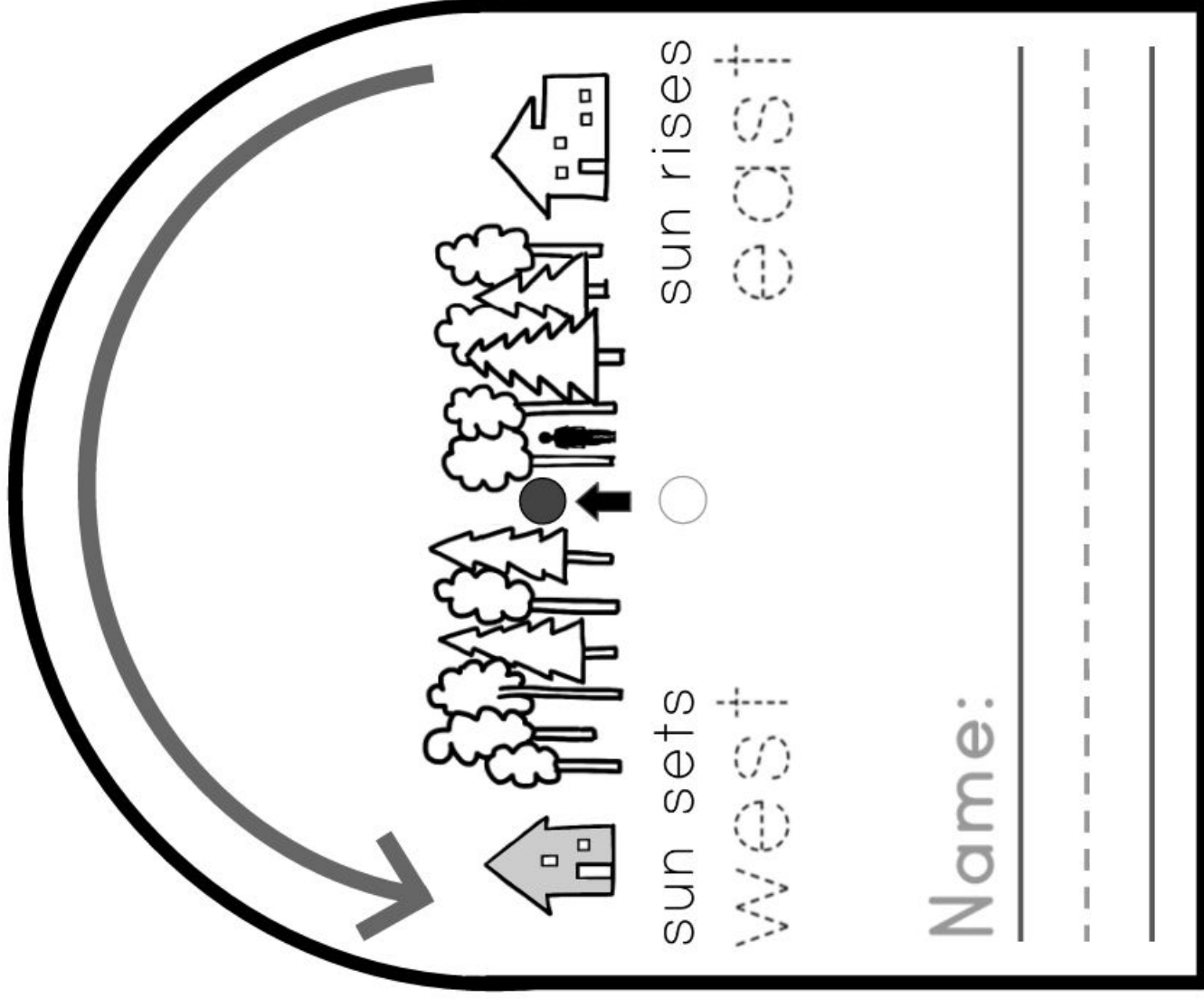
morning or
evening

long shadows



midday

2. Shadows change during the day because...



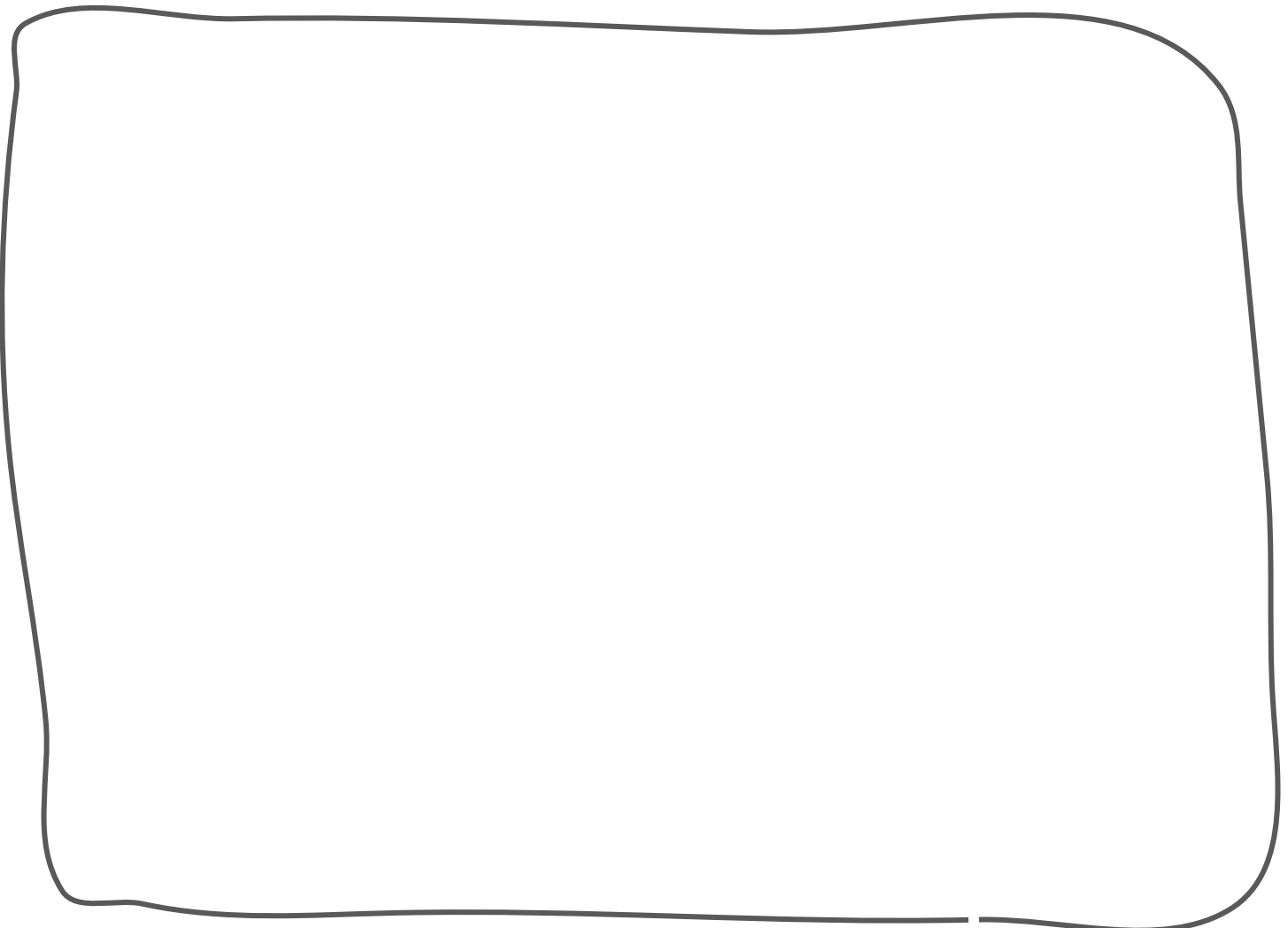
Name: _____

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 :-

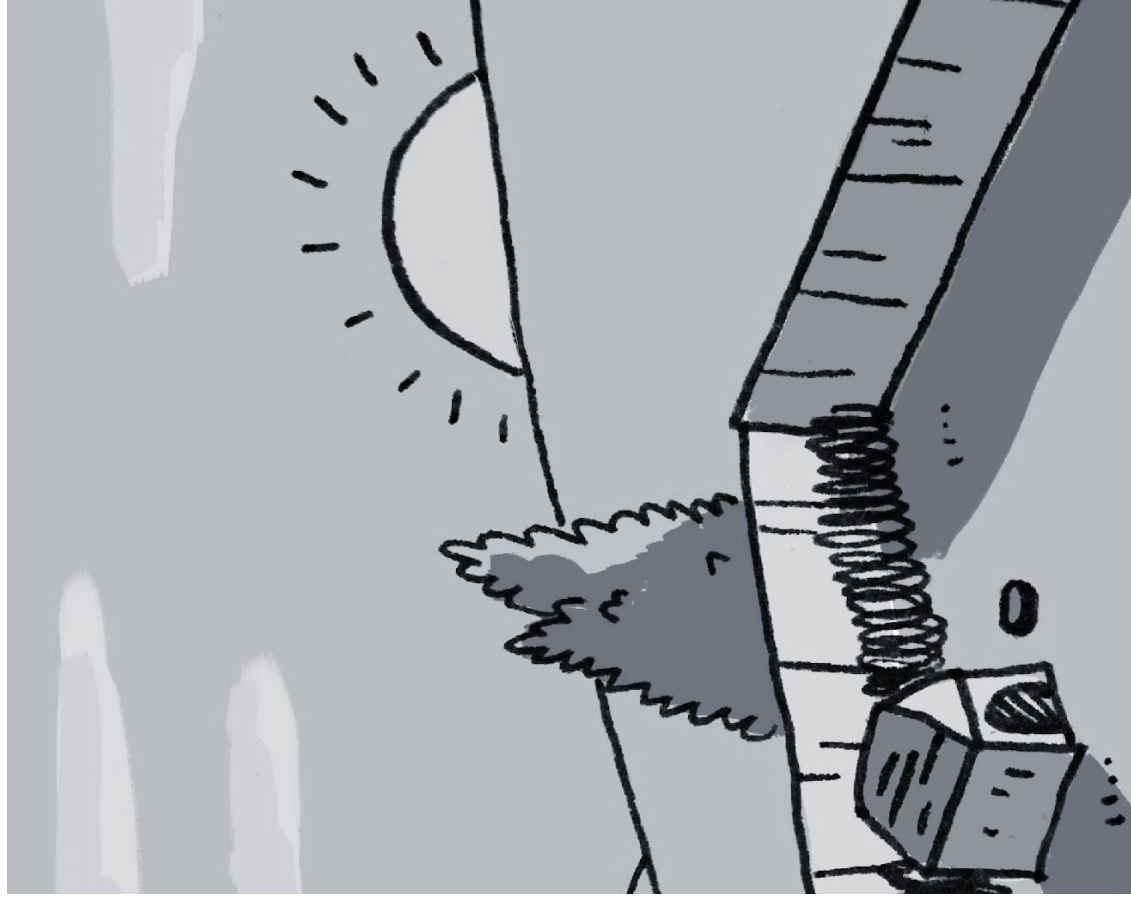


mystery science

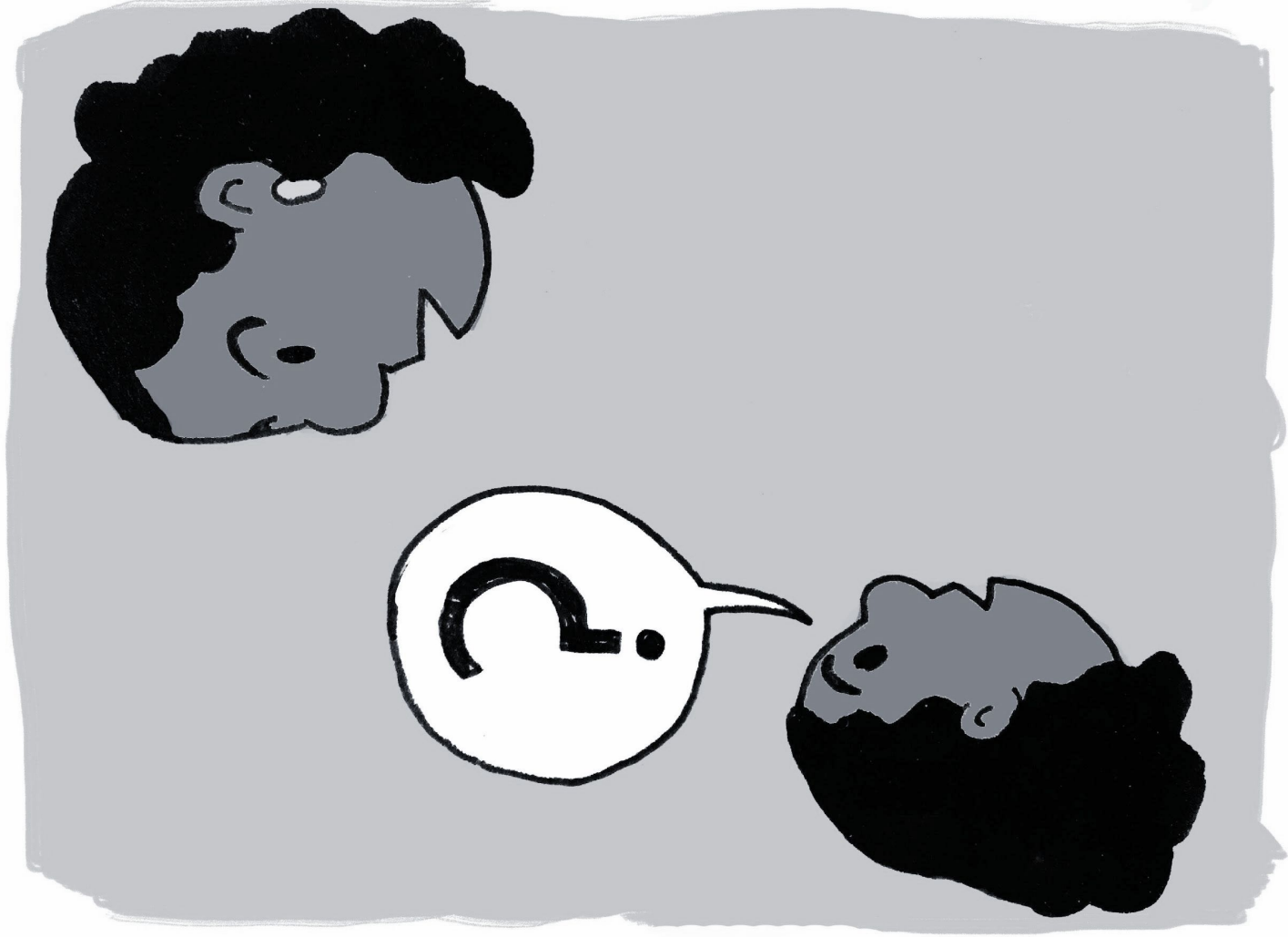
Why do you have to go
to bed early in the summer?

Here comes
the sun.

Time to wake
up!



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

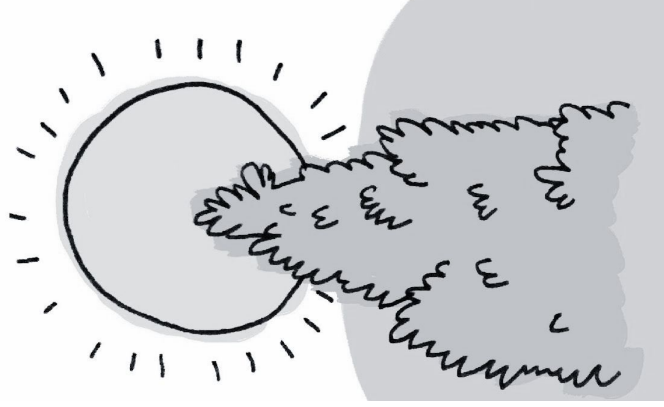


Pete and I play
outside.

Pete runs in the
grass.



Mom says,
“Time for
lunch!”

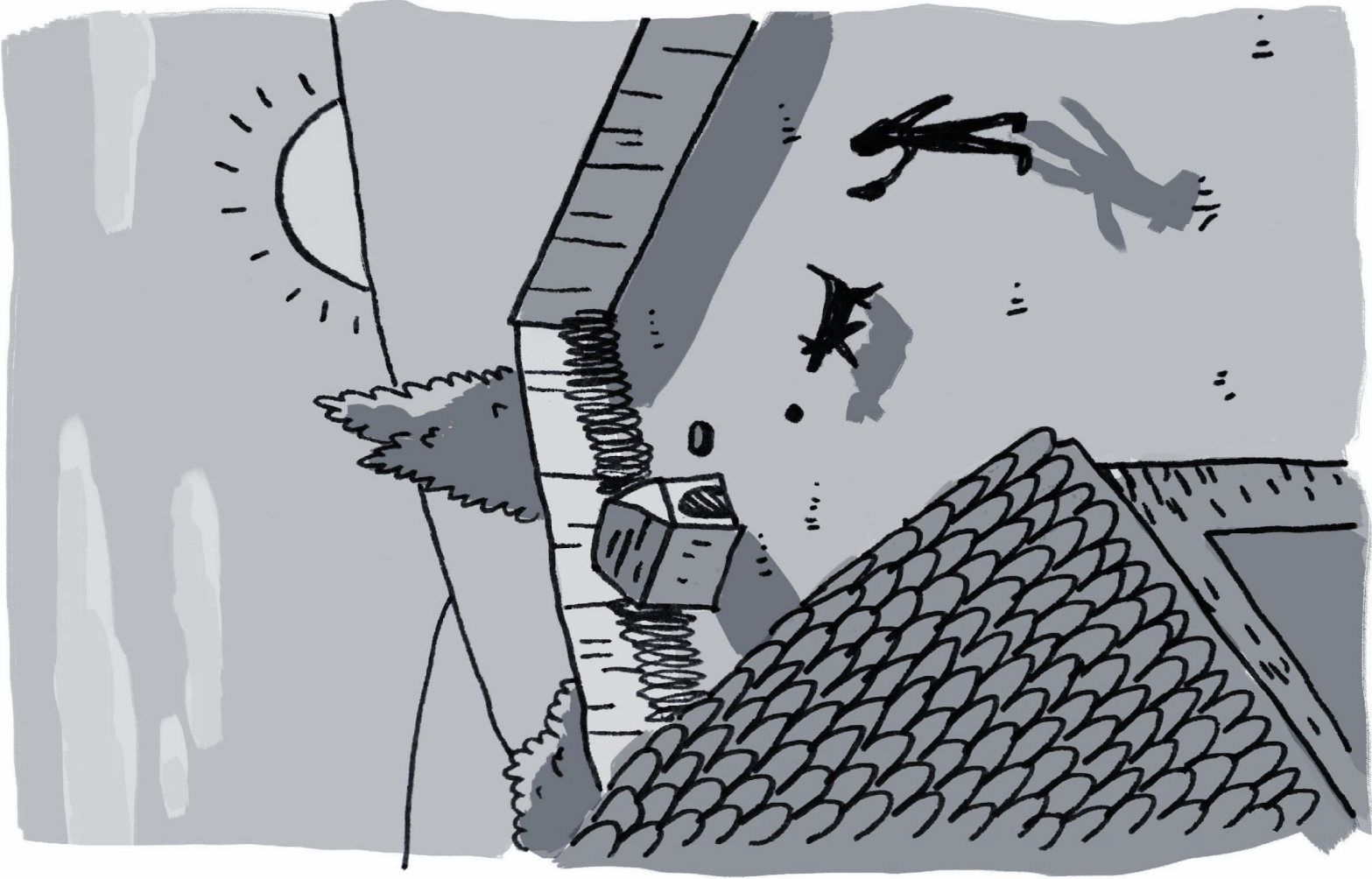


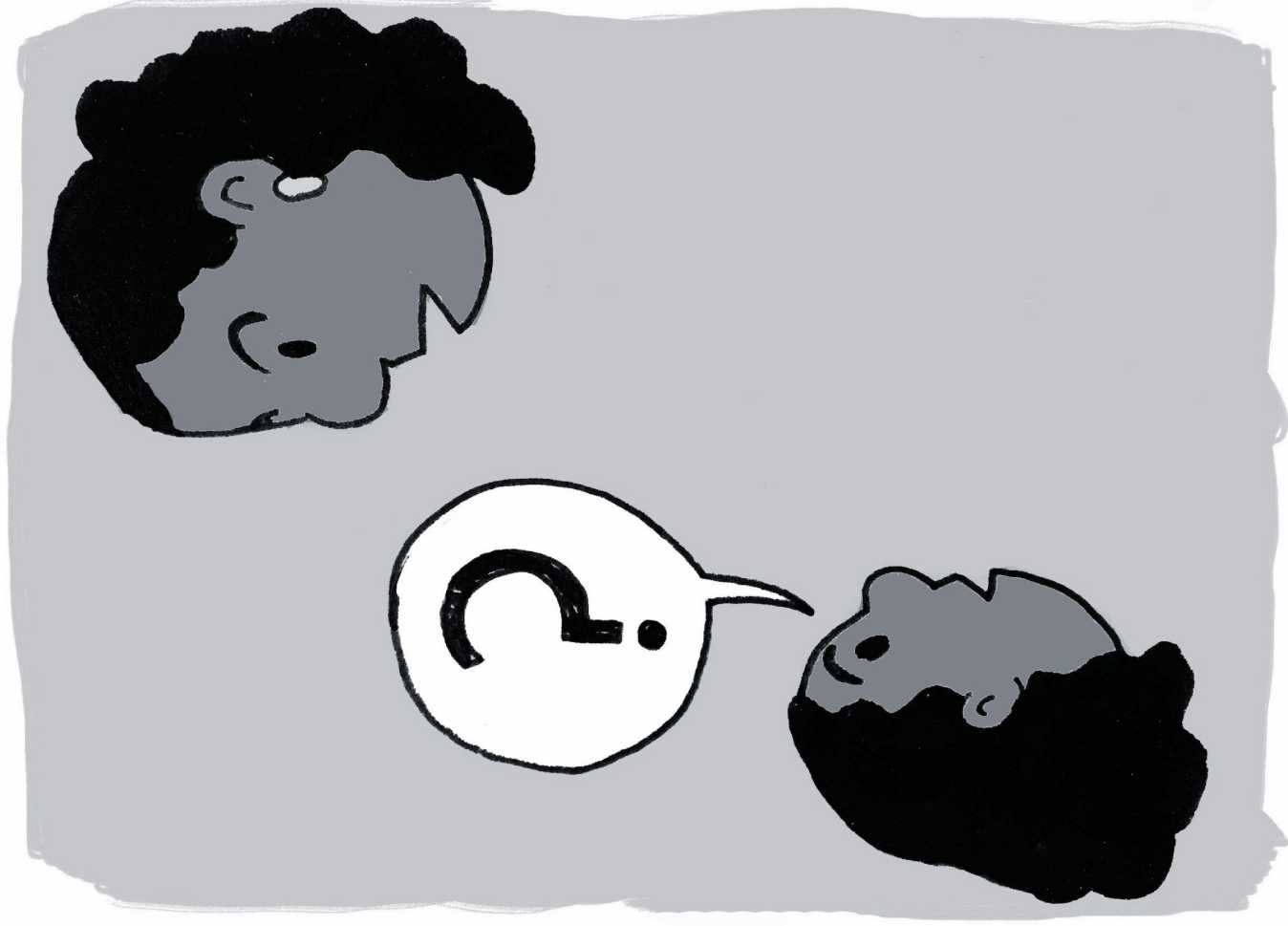
I eat my
lunch.

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.”

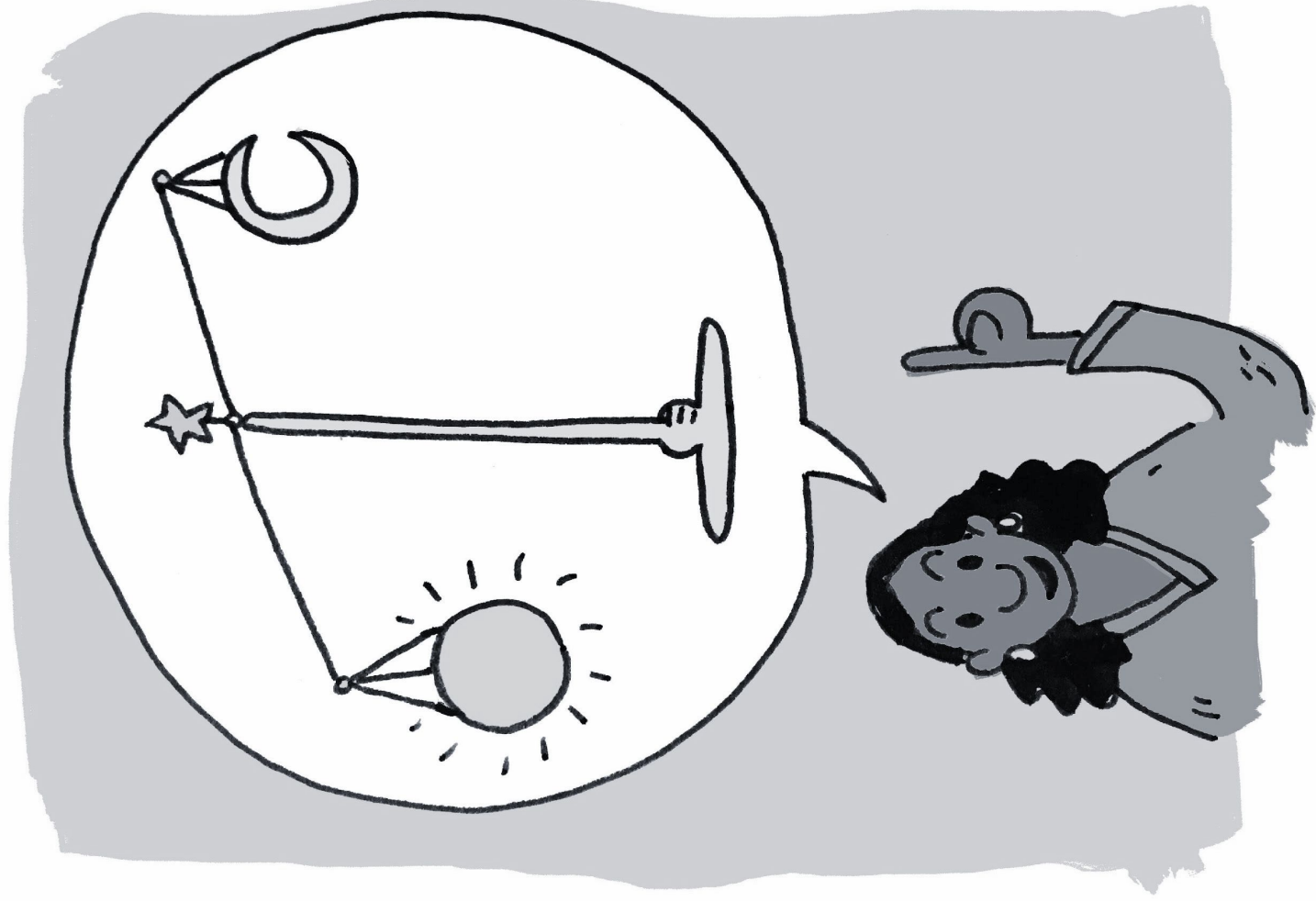


“Summer days
are long.”

“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.

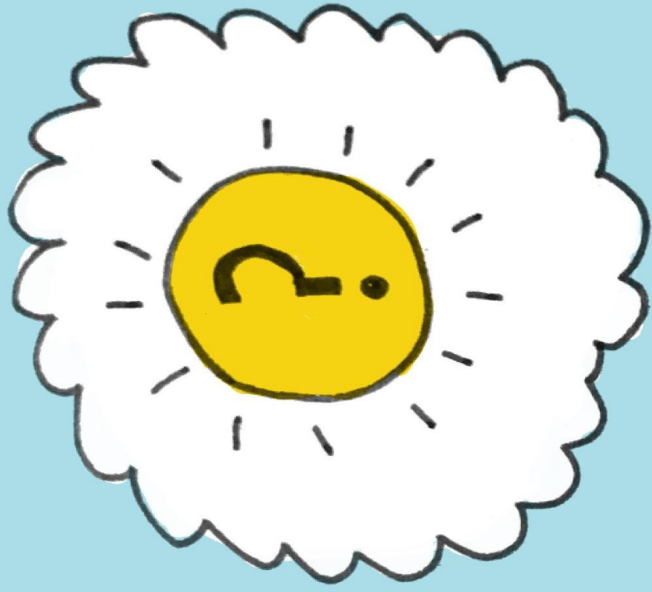


“I guess it is
bedtime after
all.”



Goodnight!





SUMMER SUNSHINE

1st-Grade

Reader :-



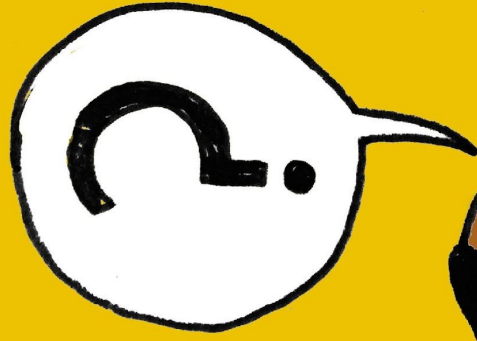
mystery science

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

Here comes
the sun.

Time to wake
up!





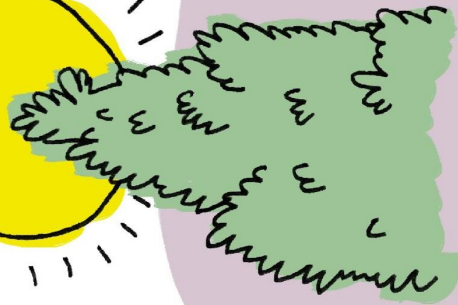
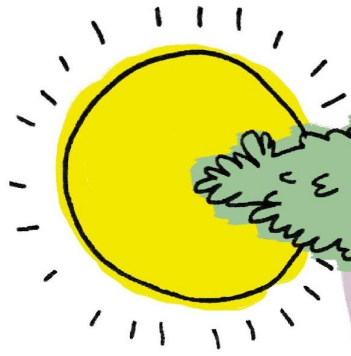
“The sun is
out,” I tell my
mom. “Can
Pete and I go
play?”

Pete and I play
outside.

Pete runs in the
grass.



Mom says,
“Time for
lunch!”

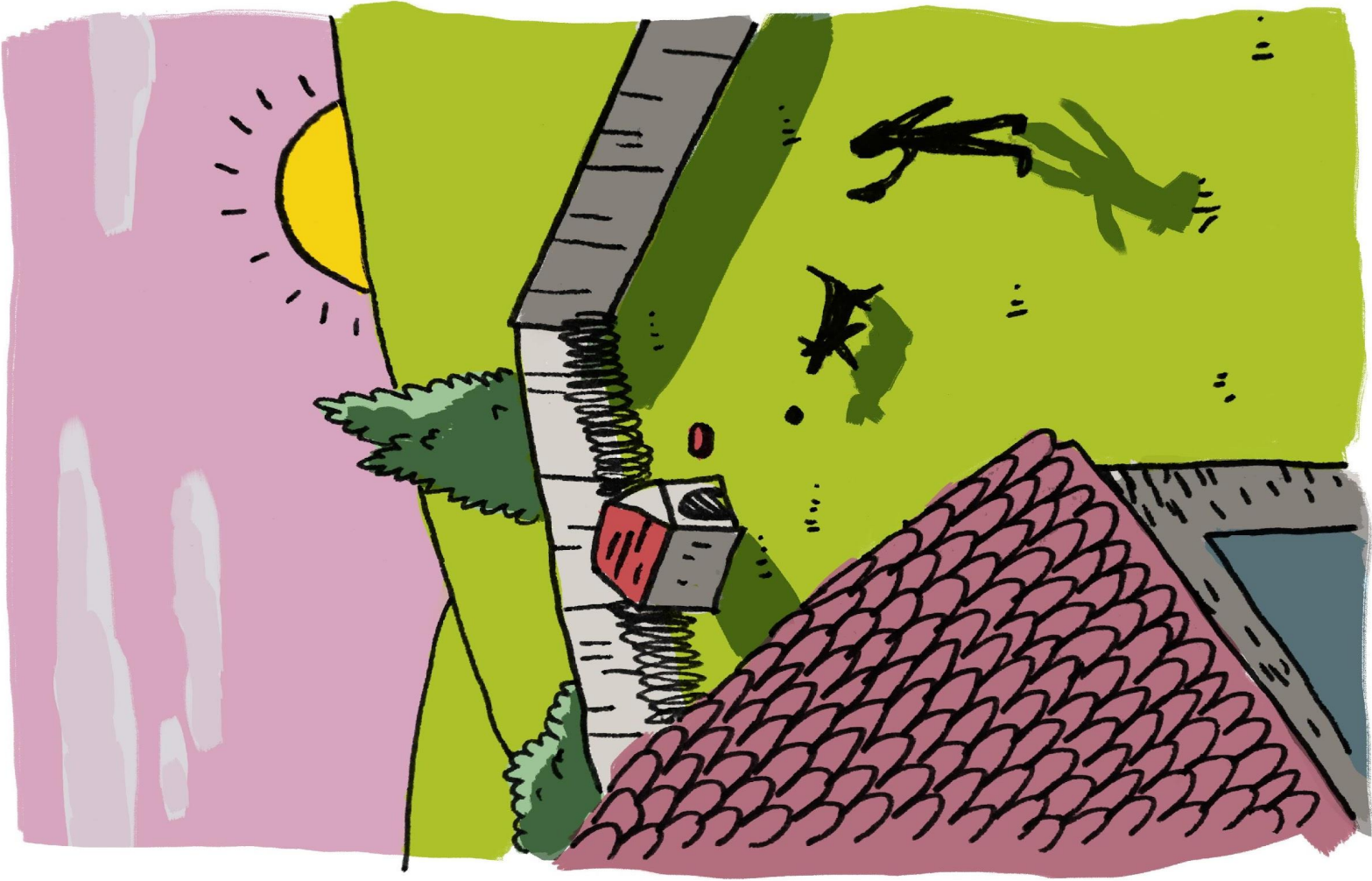


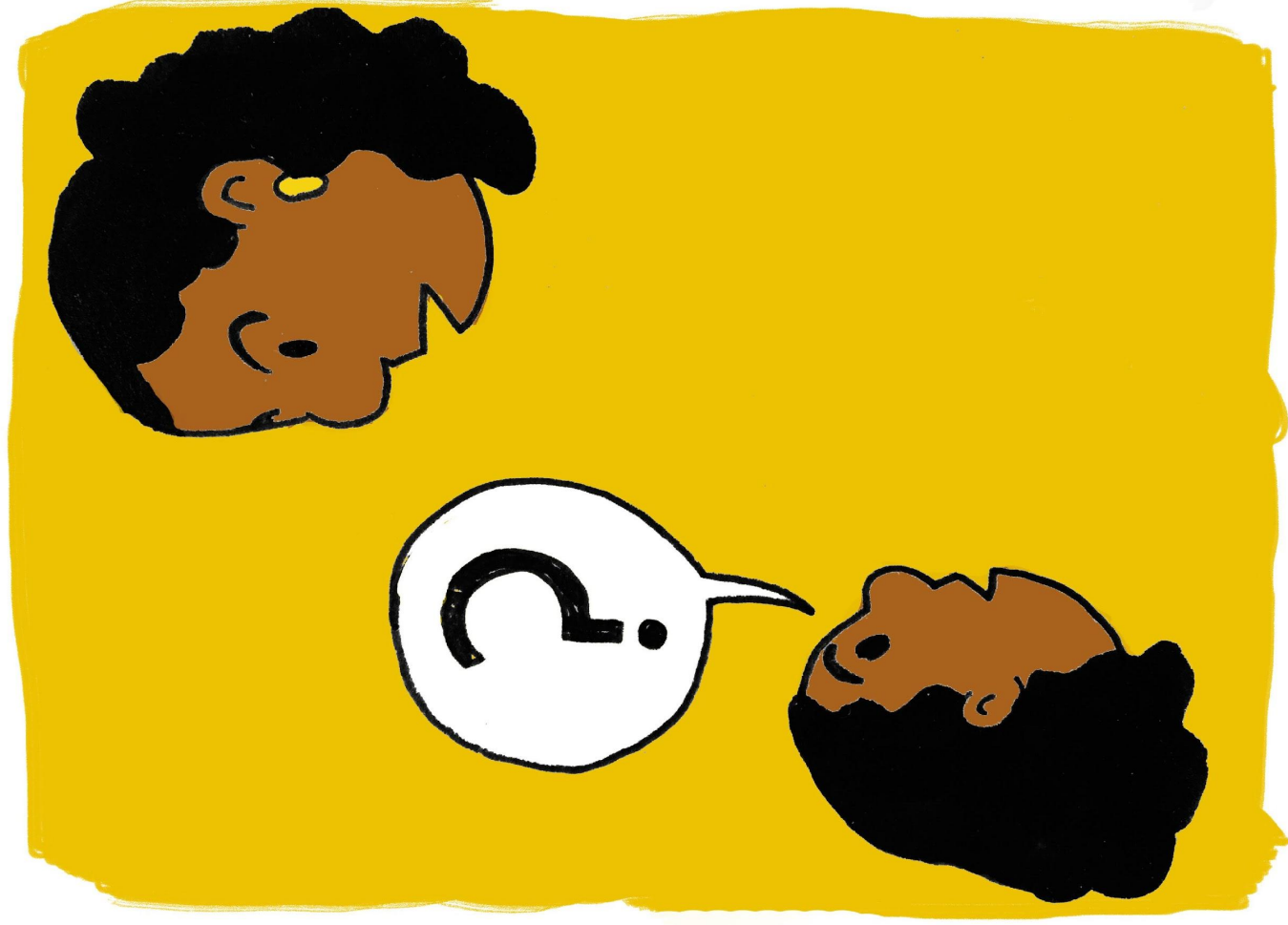
I eat my
lunch.

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.”

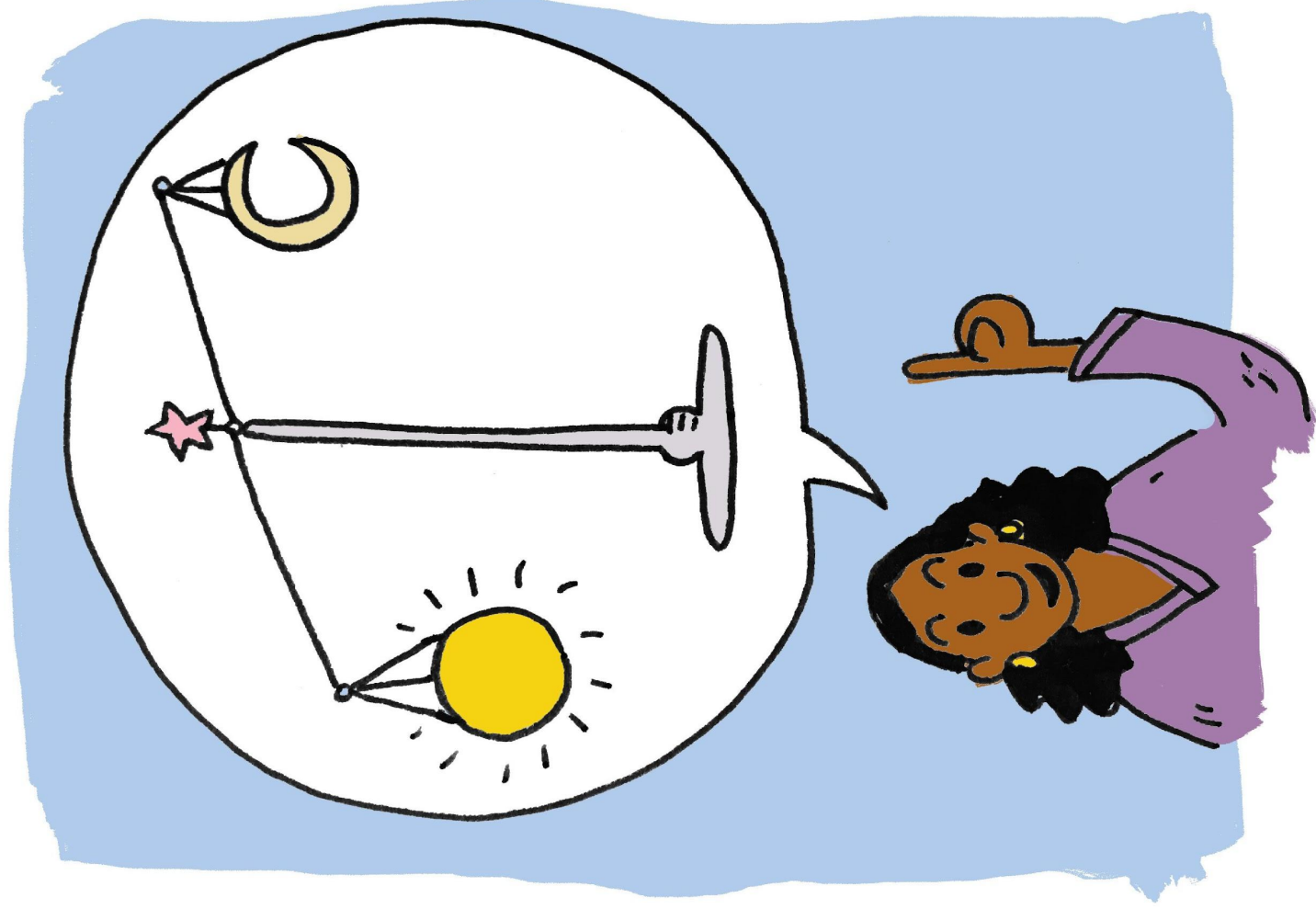


“Summer days
are long.”

“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!

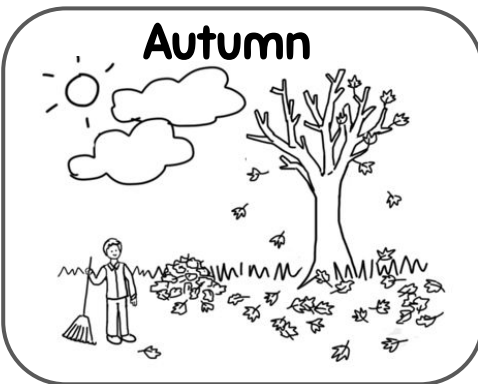


Name: _____

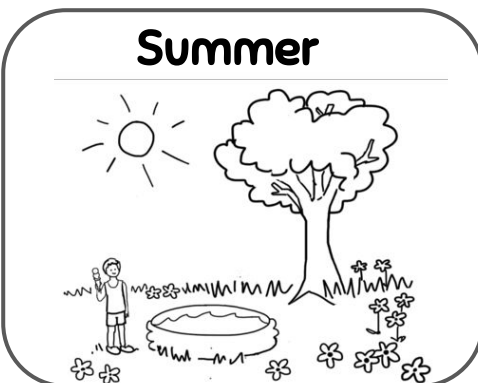
1. Match the season to how long the days are.



days are
longest



days are
shortest



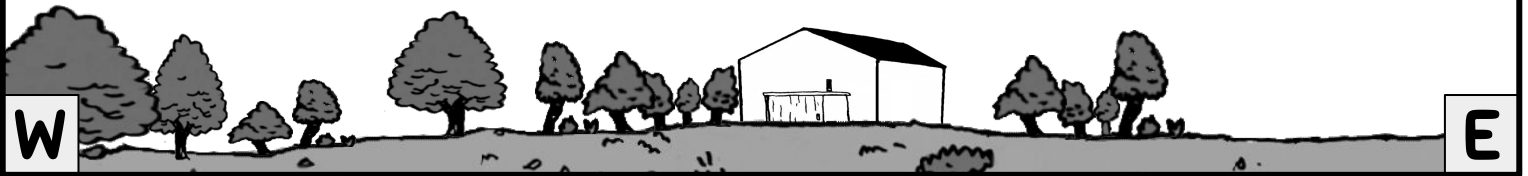
days are
medium

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

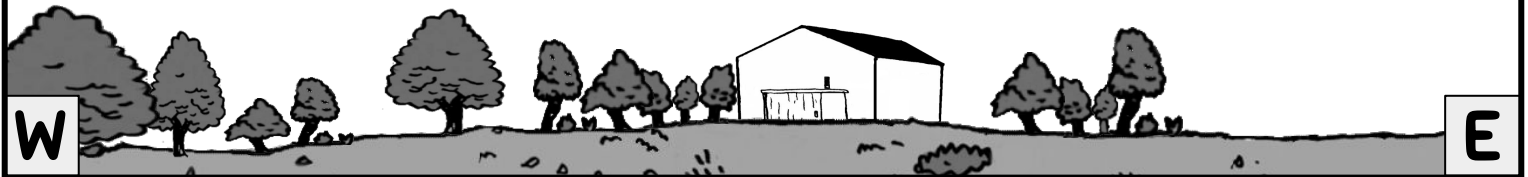
Where will the Sun be?

Name: _____

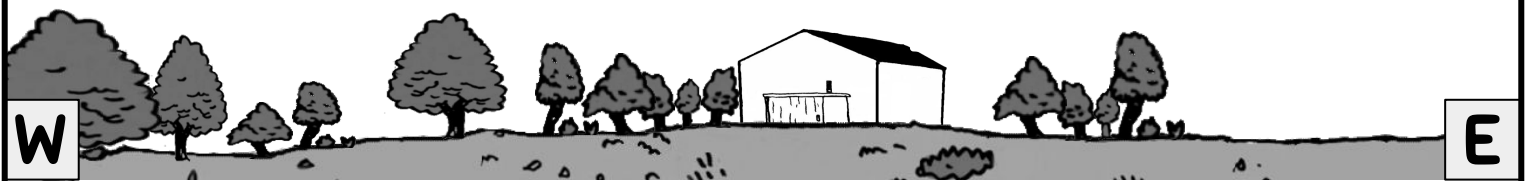
1. Morning: time to play



2. Time for lunch



3. Evening: time to go home



Night Patterns

1st Grade • NGSS • Unit Worksheets

Lesson 1



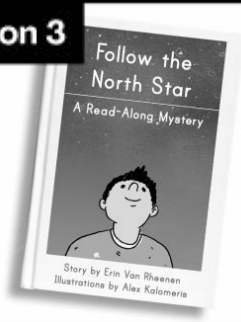
When can you see the full moon?

Lesson 2



Why do stars come out at night?

Lesson 3



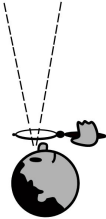
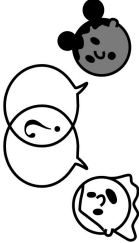
How can stars help you if you get lost?

I am also curious about...

See-Think-Wonder Chart

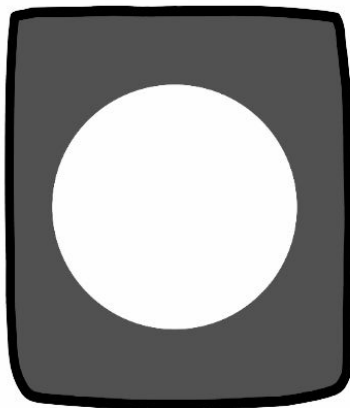
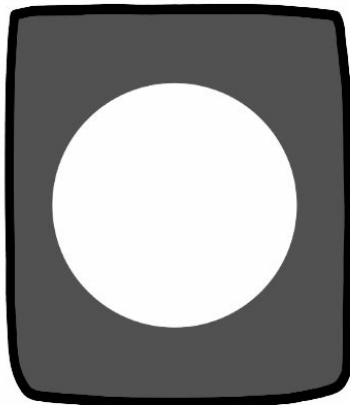
mystery science

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



Days after full moon:

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

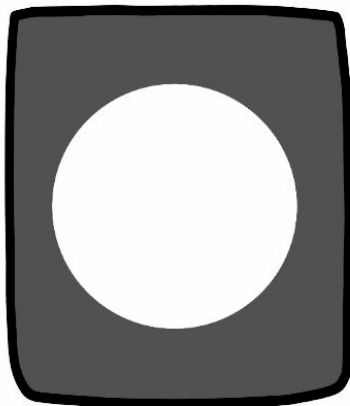
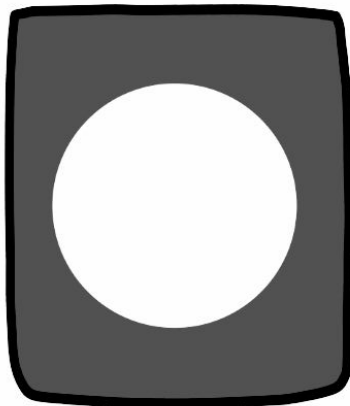
Four weeks

One week

Days after full moon:

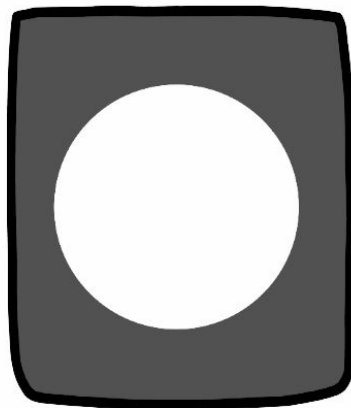
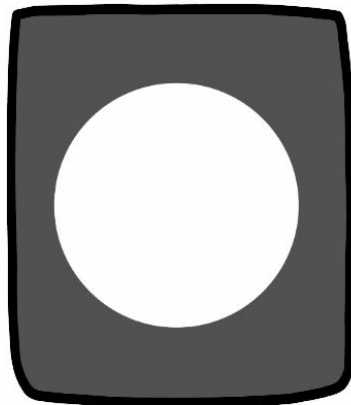
15	16	17	18	5	6	7
----	----	----	----	---	---	---

Half Moon



Days after full moon:

Crescent Moon



Half Moon

Days after full moon:

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

Three weeks

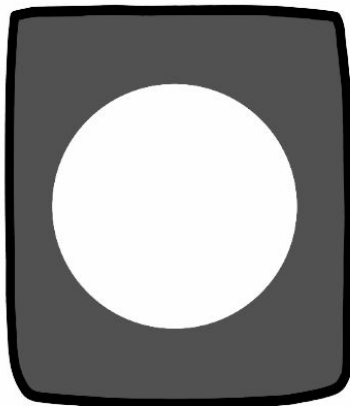
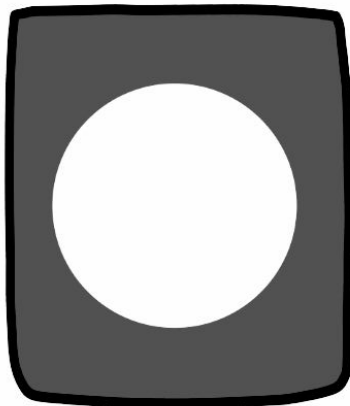


One week

Days after full moon:

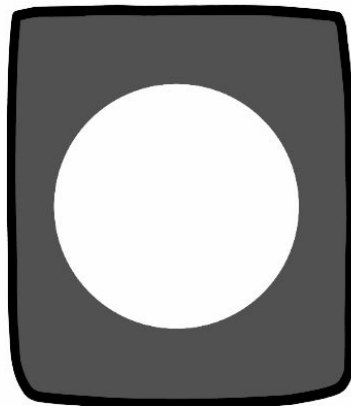
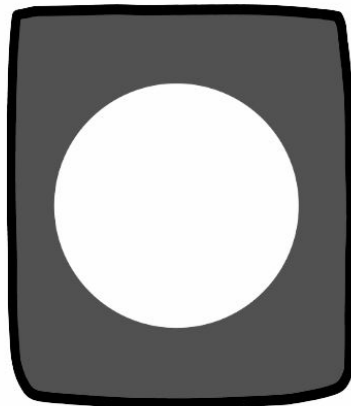
15	16	17	18	5	6	7
----	----	----	----	---	---	---

Half Moon



Days after full moon:

Crescent Moon



Crescent Moon

Days after full moon:

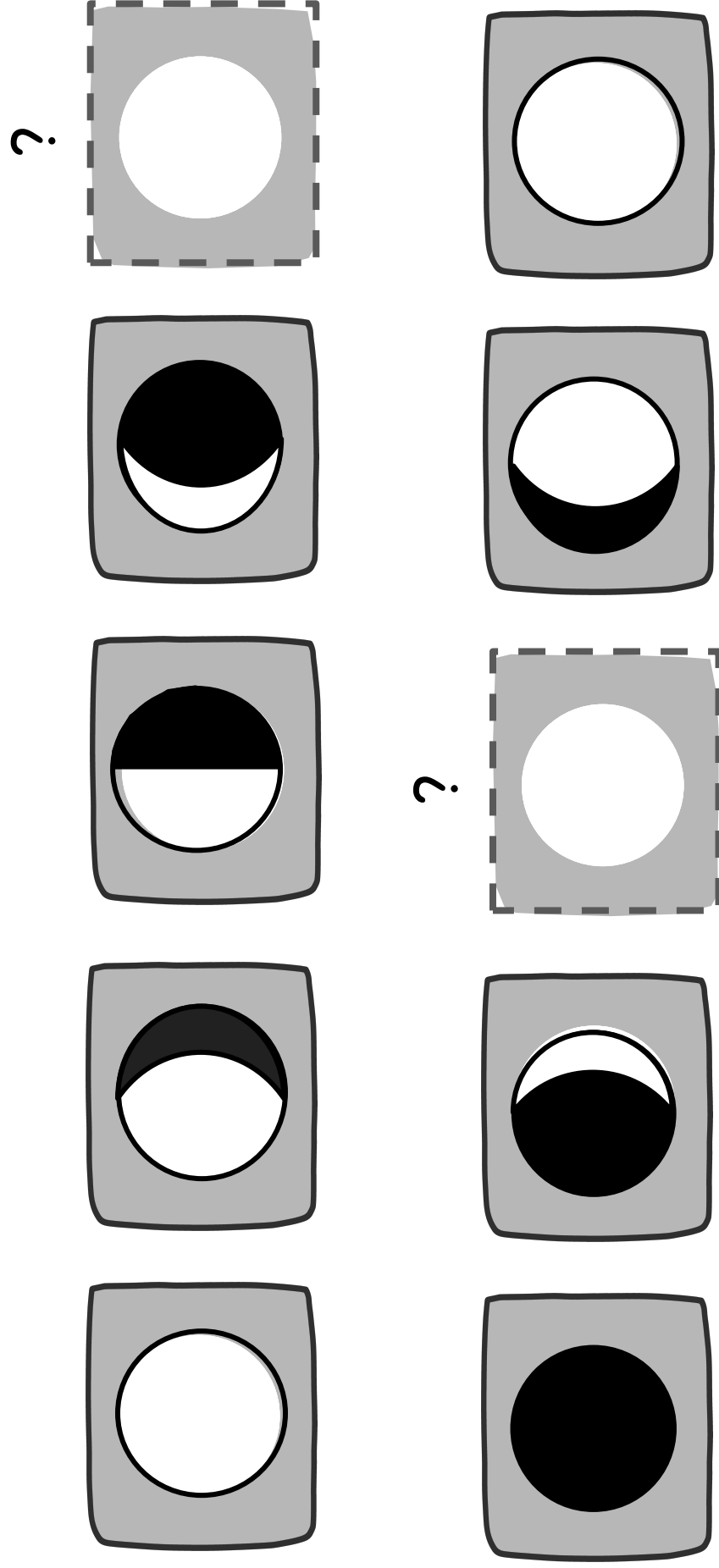
8	9	10	11	12	13	14
---	---	----	----	----	----	----

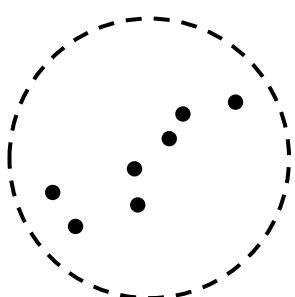
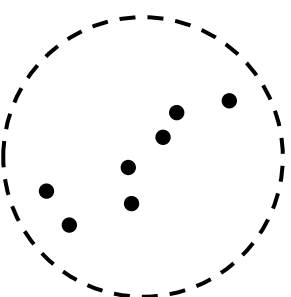
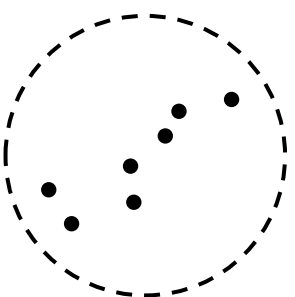
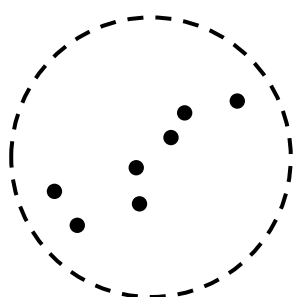
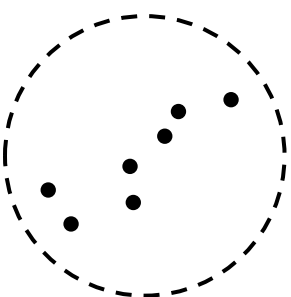
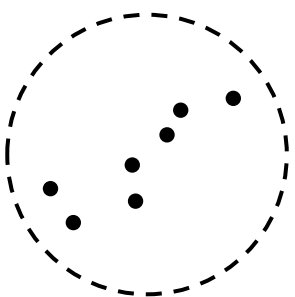
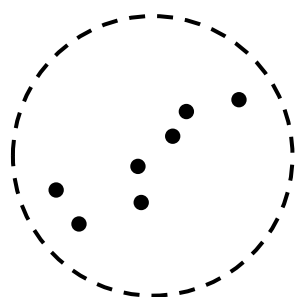
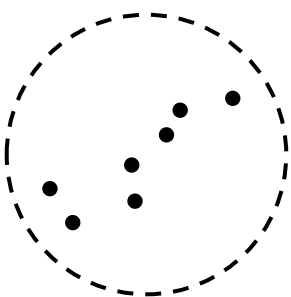
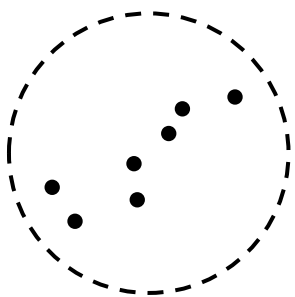
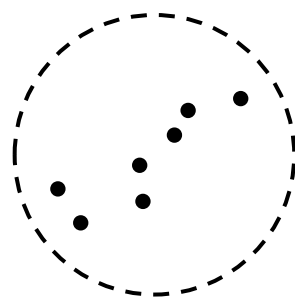
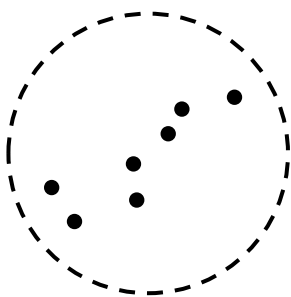
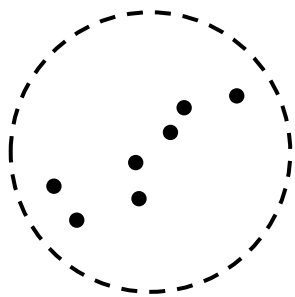
Two weeks

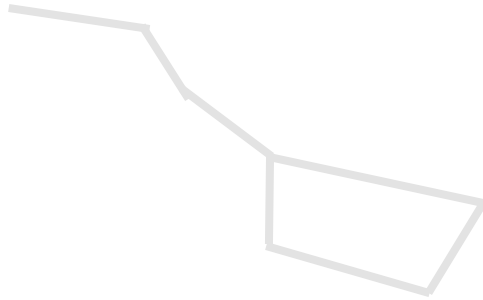


Name: _____

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



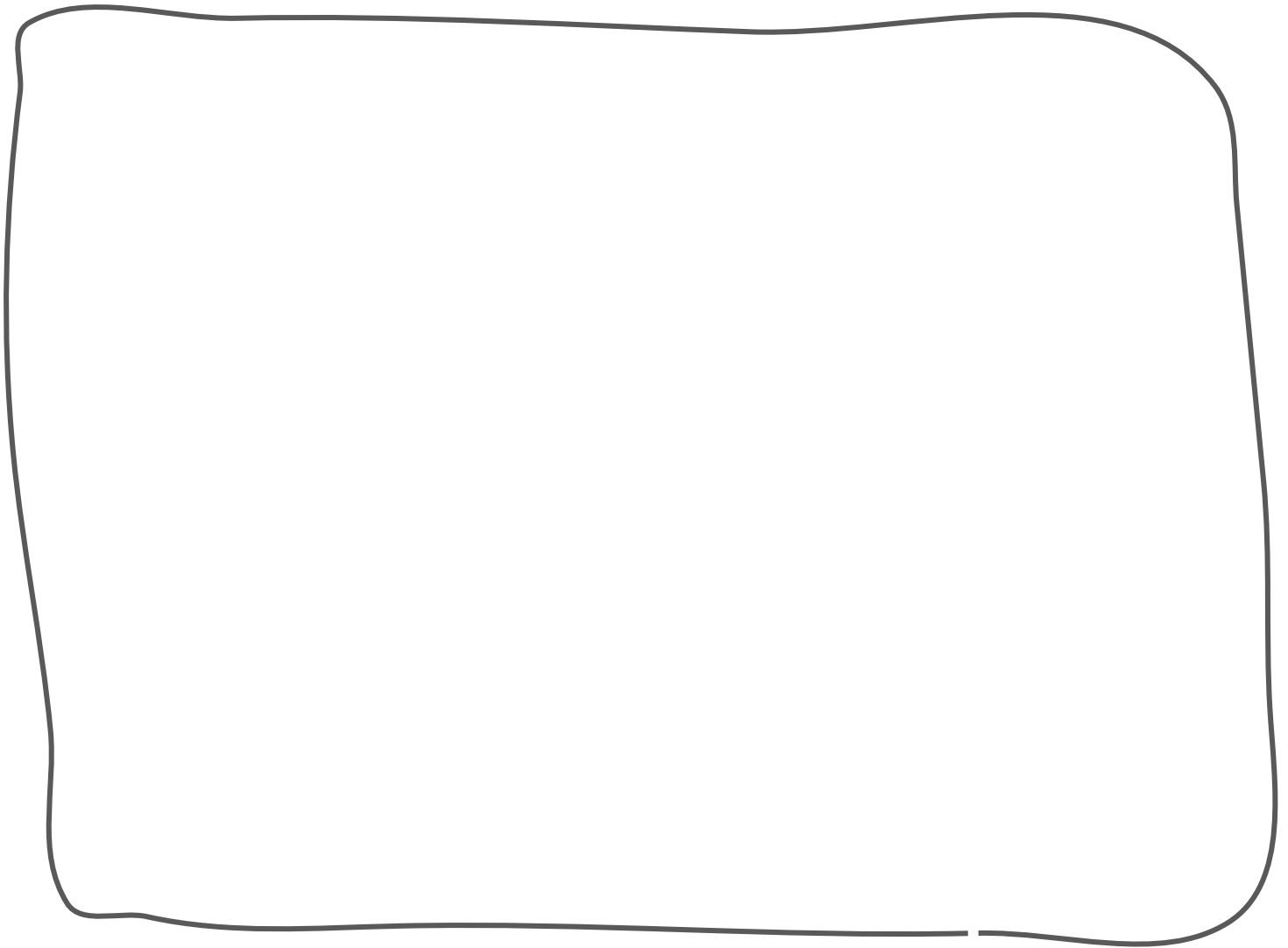




mystery science

Why do the stars come out at night?

Name: _____



Draw and write your ideas.

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



Name: _____

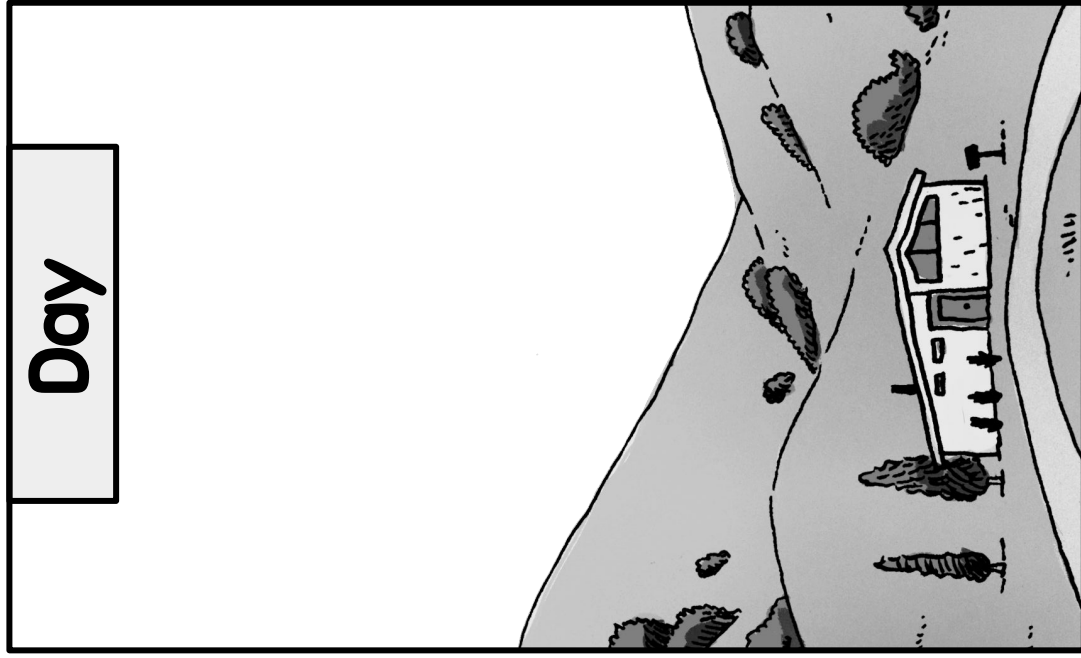
1. Draw how to find the North Star using the pattern of stars in the Big Dipper.



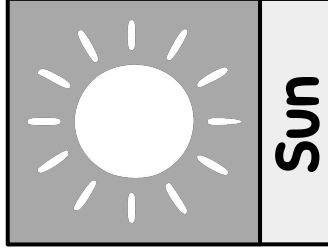
2. The “Big Dipper” gets its name because...

Name: _____

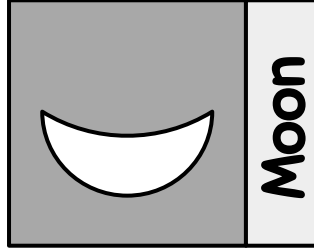
What can I see in
the sky?



Day



Sun



Moon



Stars



Night

Light, Sound, & Communication

1st Grade • NGSS • Unit Worksheets

Lesson 1



How do they make silly sounds in cartoons?

Lesson 2



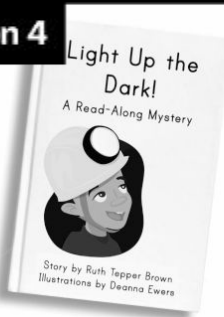
Where do sounds come from?

Lesson 3



What if there were no windows?

Lesson 4



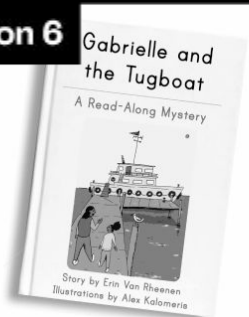
Can you see in the dark?

Lesson 5



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

Lesson 6



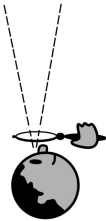
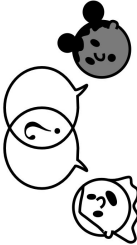
How do boats find their way in the fog?

I am also curious about...

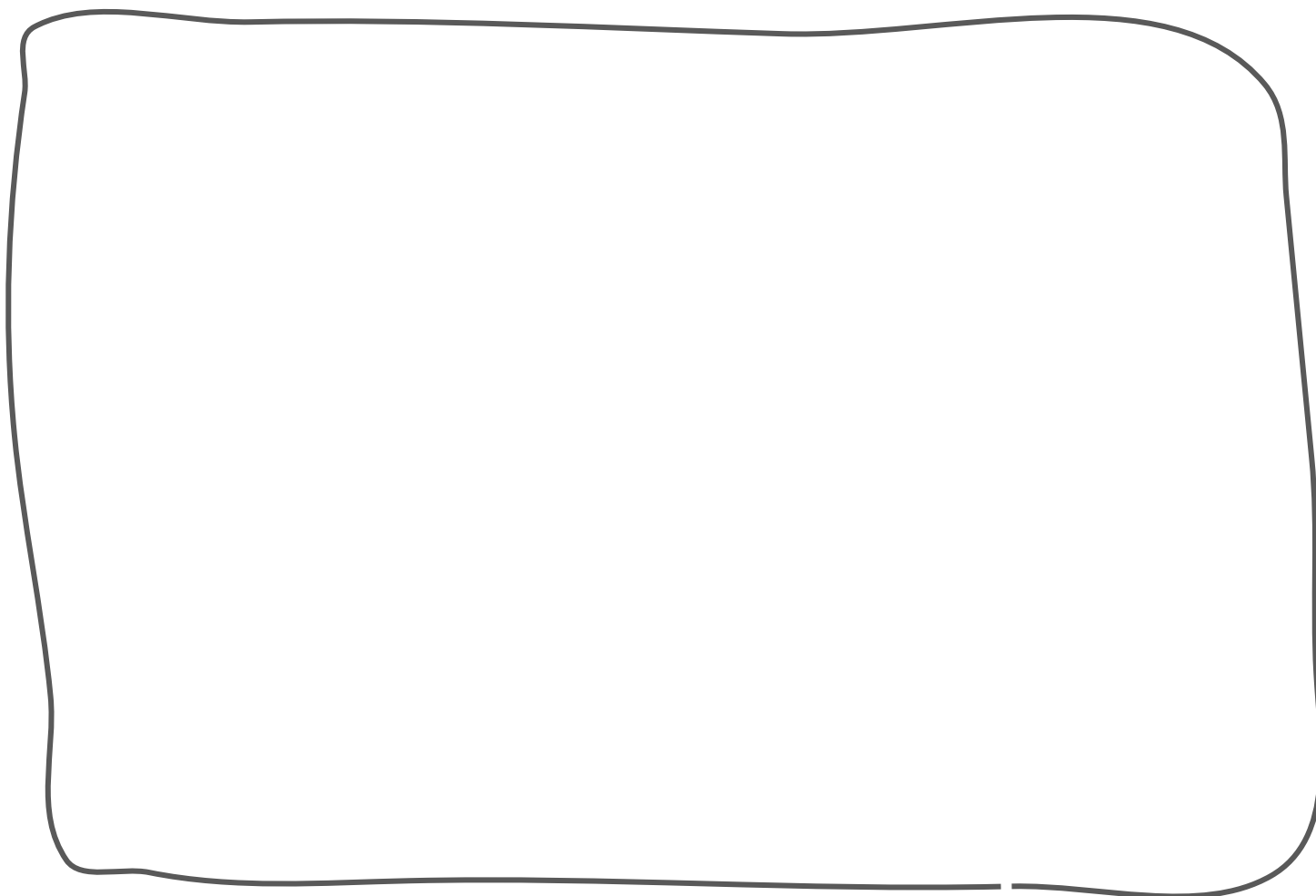
See-Think-Wonder Chart

mystery science

Name: _____

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

Name: _____

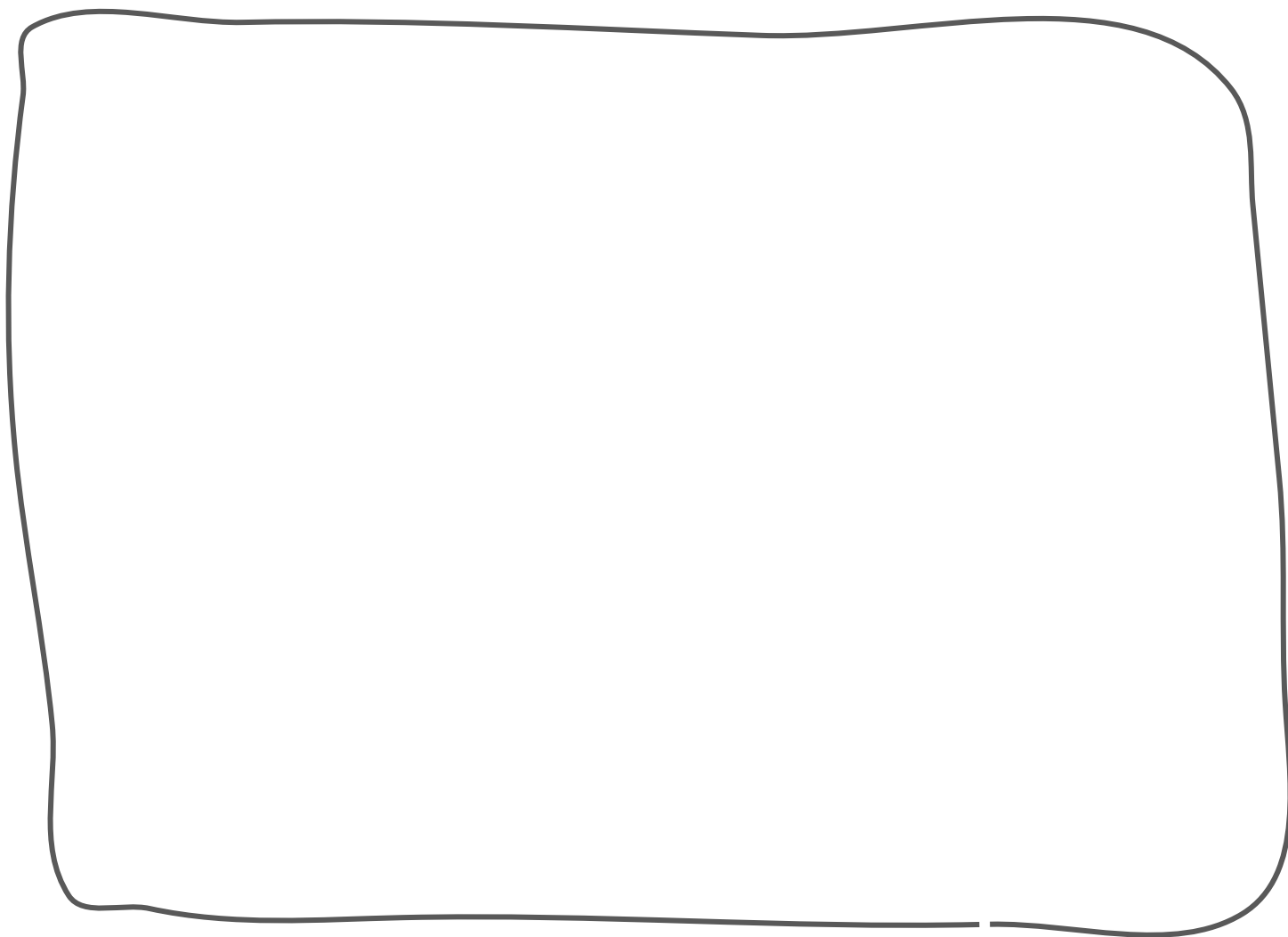


Draw and write your ideas.

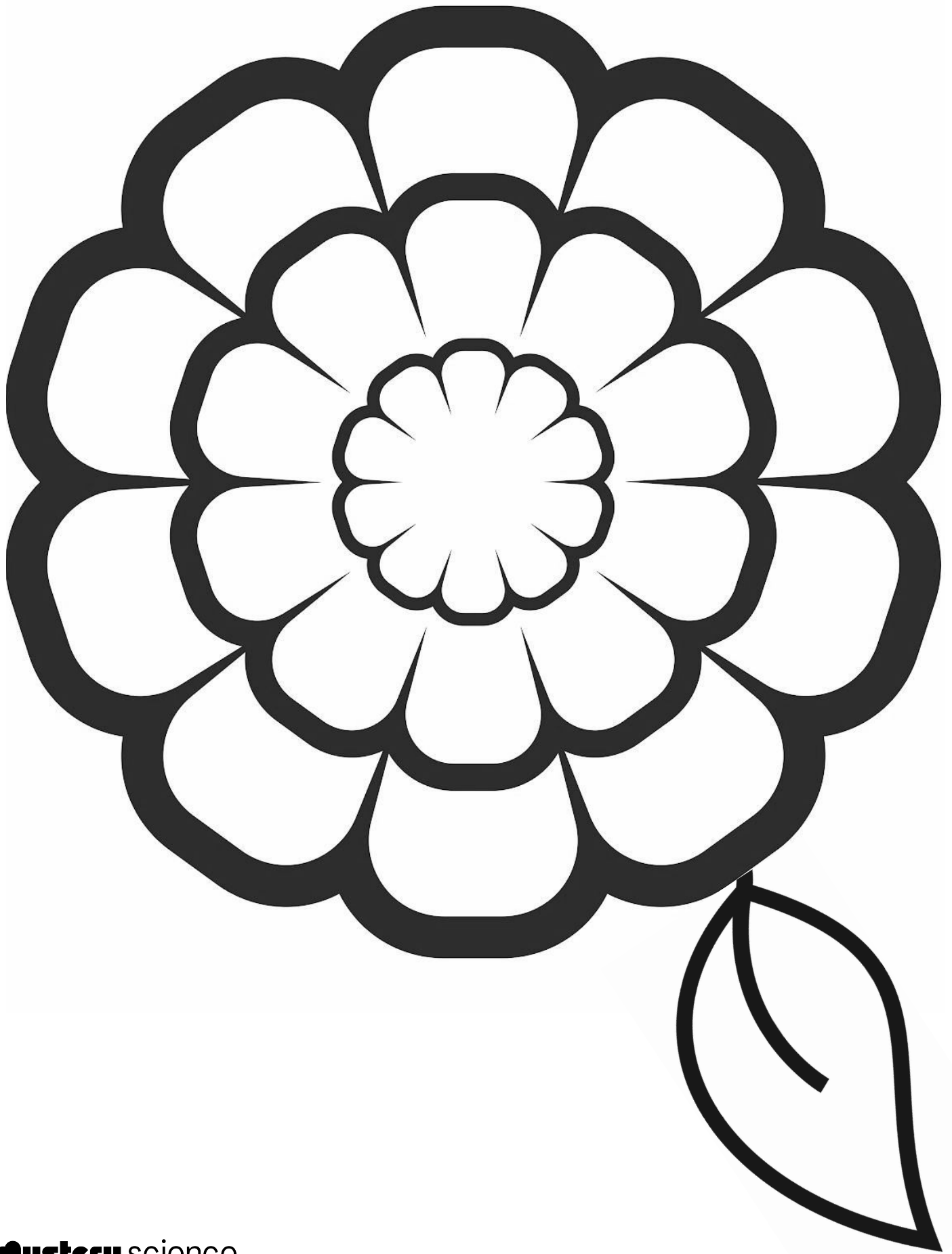
Two ways people make sounds for cartoons are...

Name: _____

1. Draw a musical instrument making sounds.



2. The instrument makes sounds by...



see through

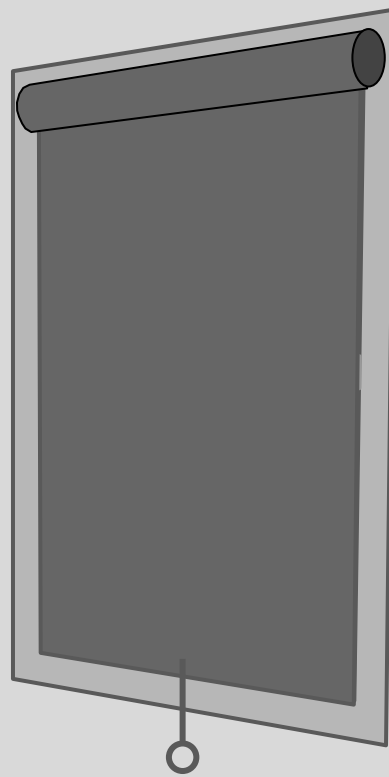


kind of

see through

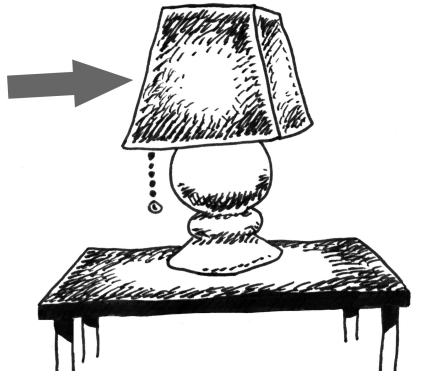


not see through



Name: _____

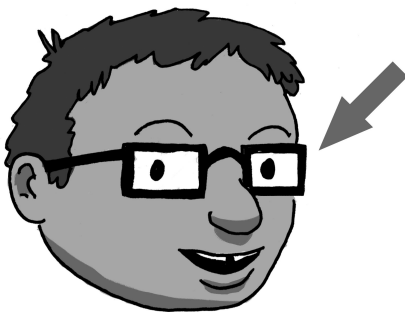
1. Draw a line to match the picture to the word.



transparent
(see-through)



translucent
(kind of see-through)

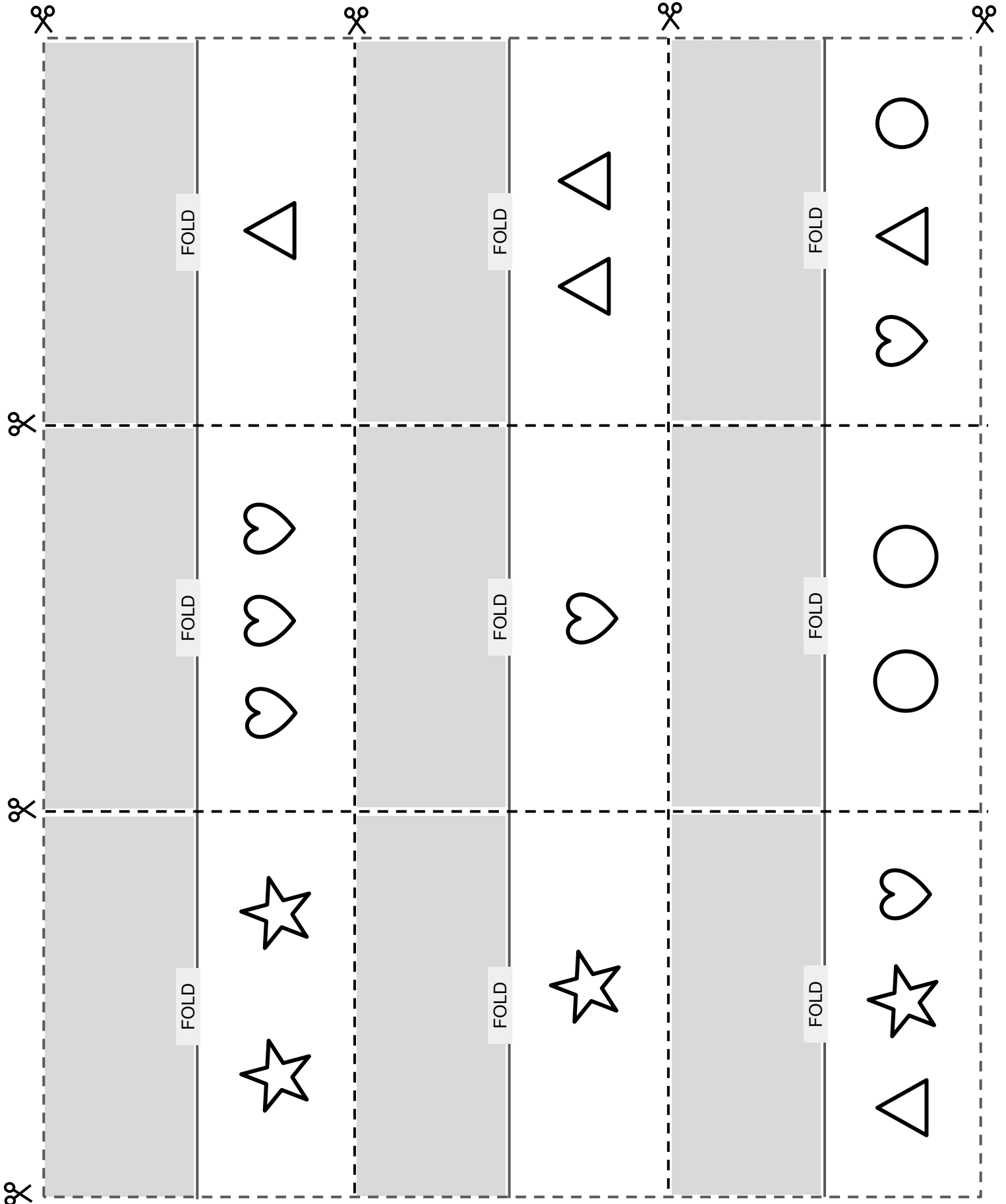


opaque
(not see-through)

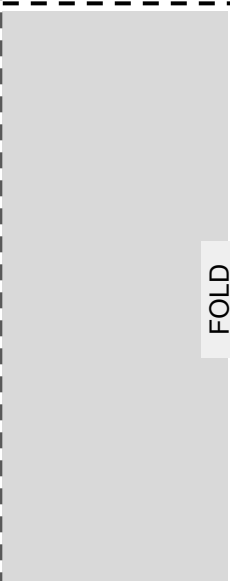
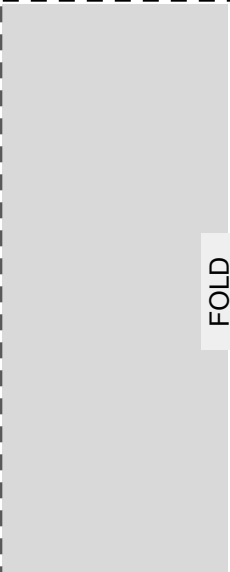
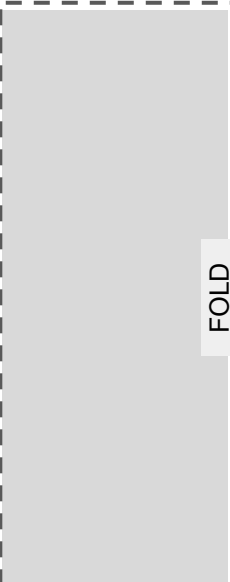
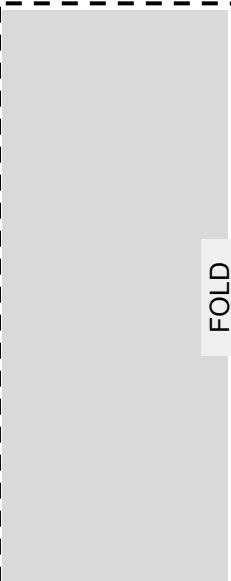
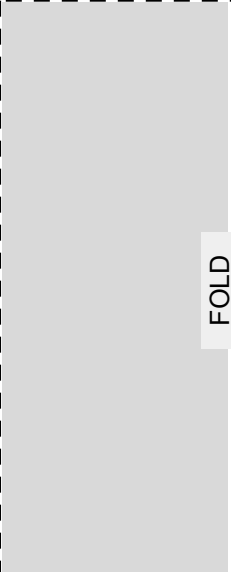
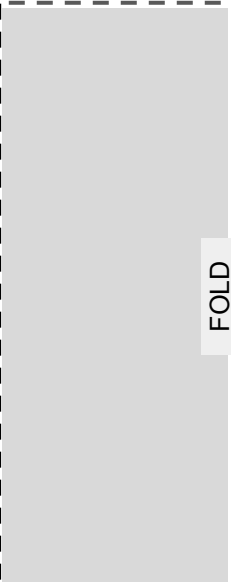
2. If there were no transparent materials...

INSTRUCTIONS:

Cut and fold. Color the shapes different colors.



INSTRUCTIONS: Cut and fold.

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

How to Play “Dark Box”

1 Find someone to play with.

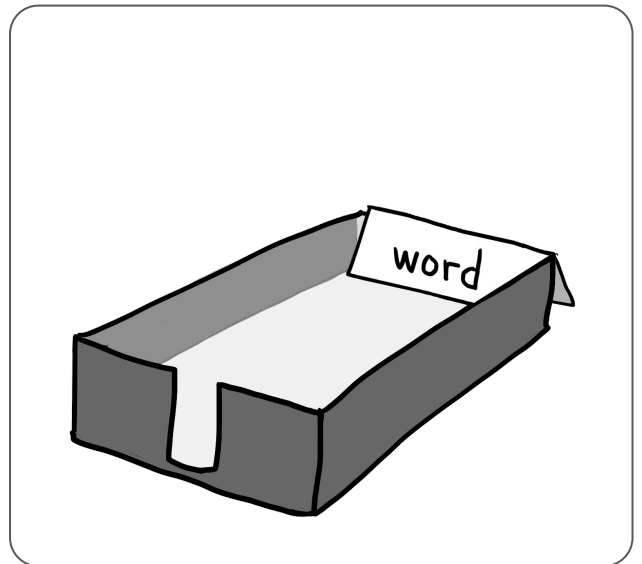
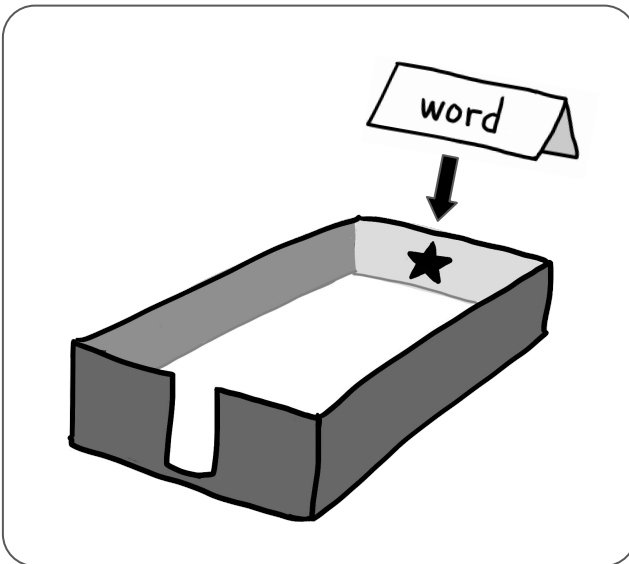
2 Pick a word or shape card.



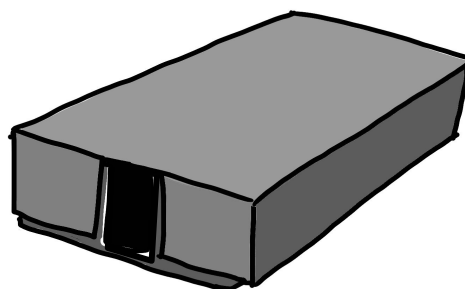
3 Don't show the other person.



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

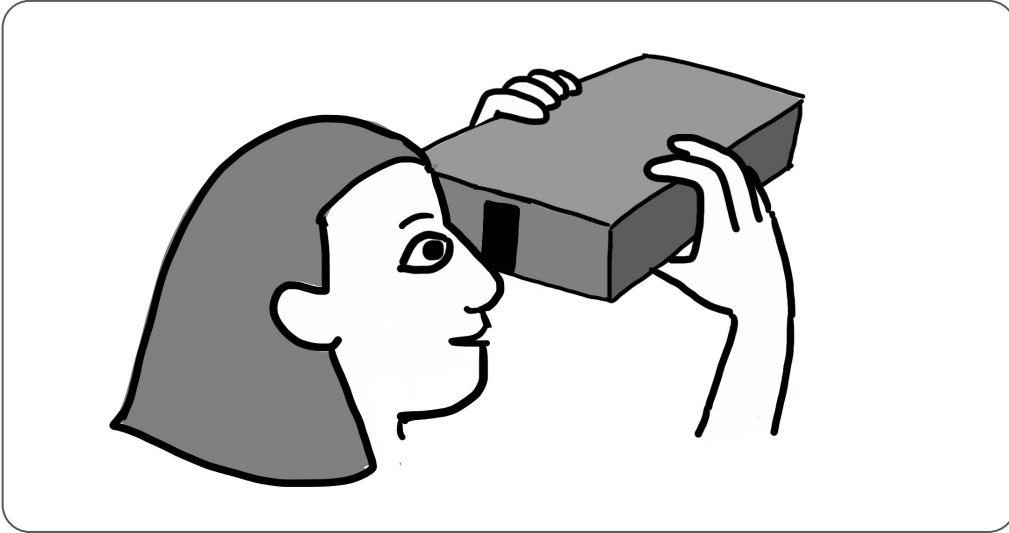


5 Close the box.



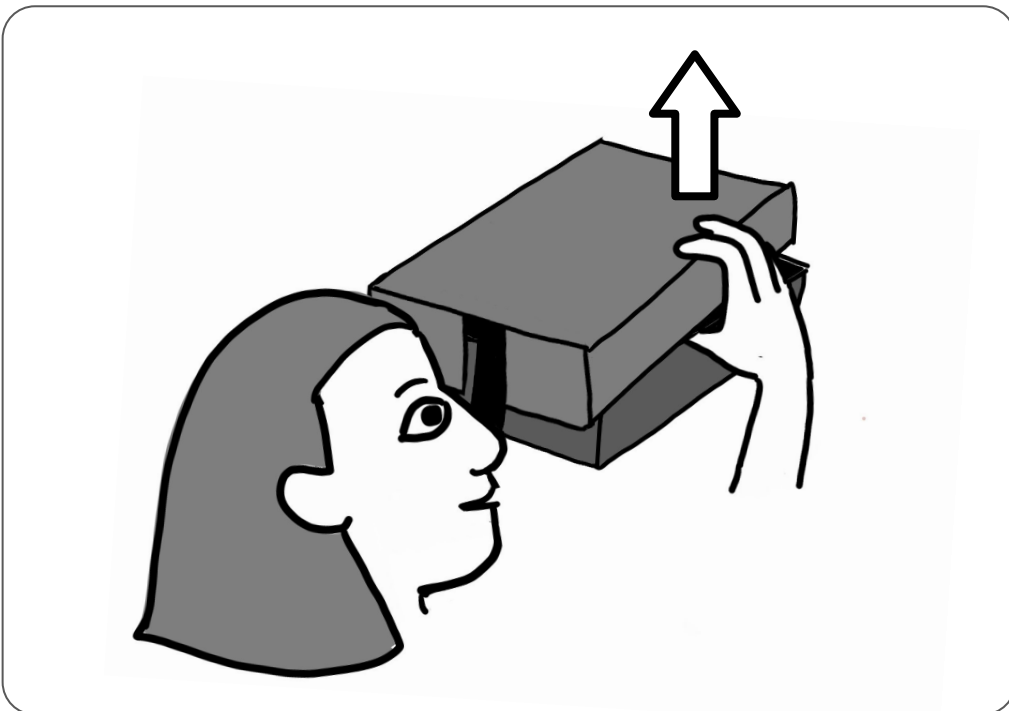
6

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: _____

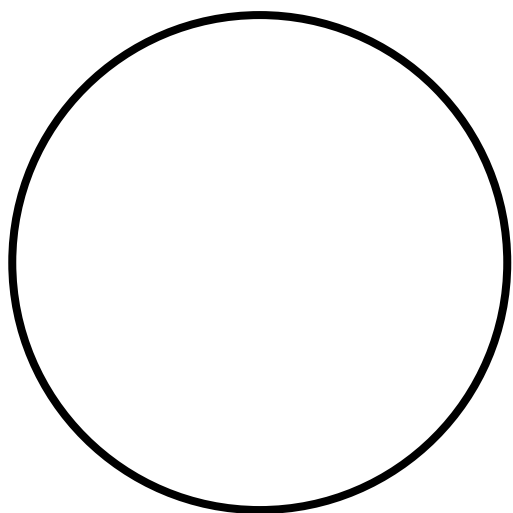
1. Circle all the places light is coming from.



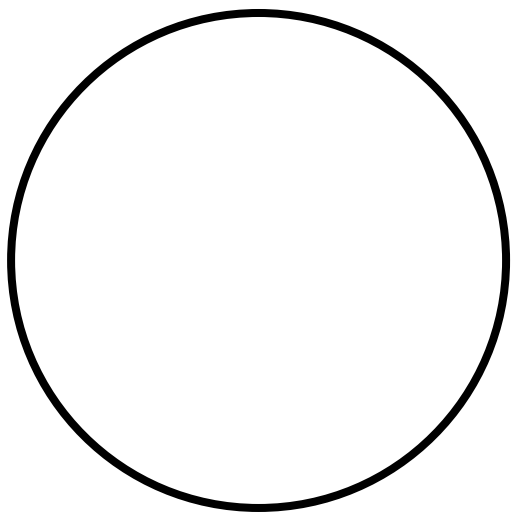
2. If light were not coming from any of those places, what would the driver see?

Name →

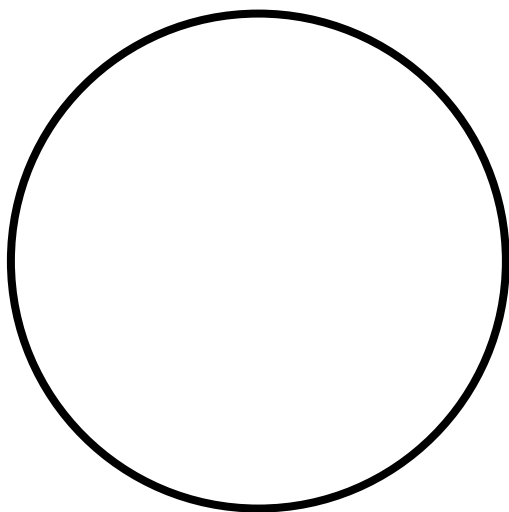
Color Codes



← What does this color mean?



← What does this color mean?

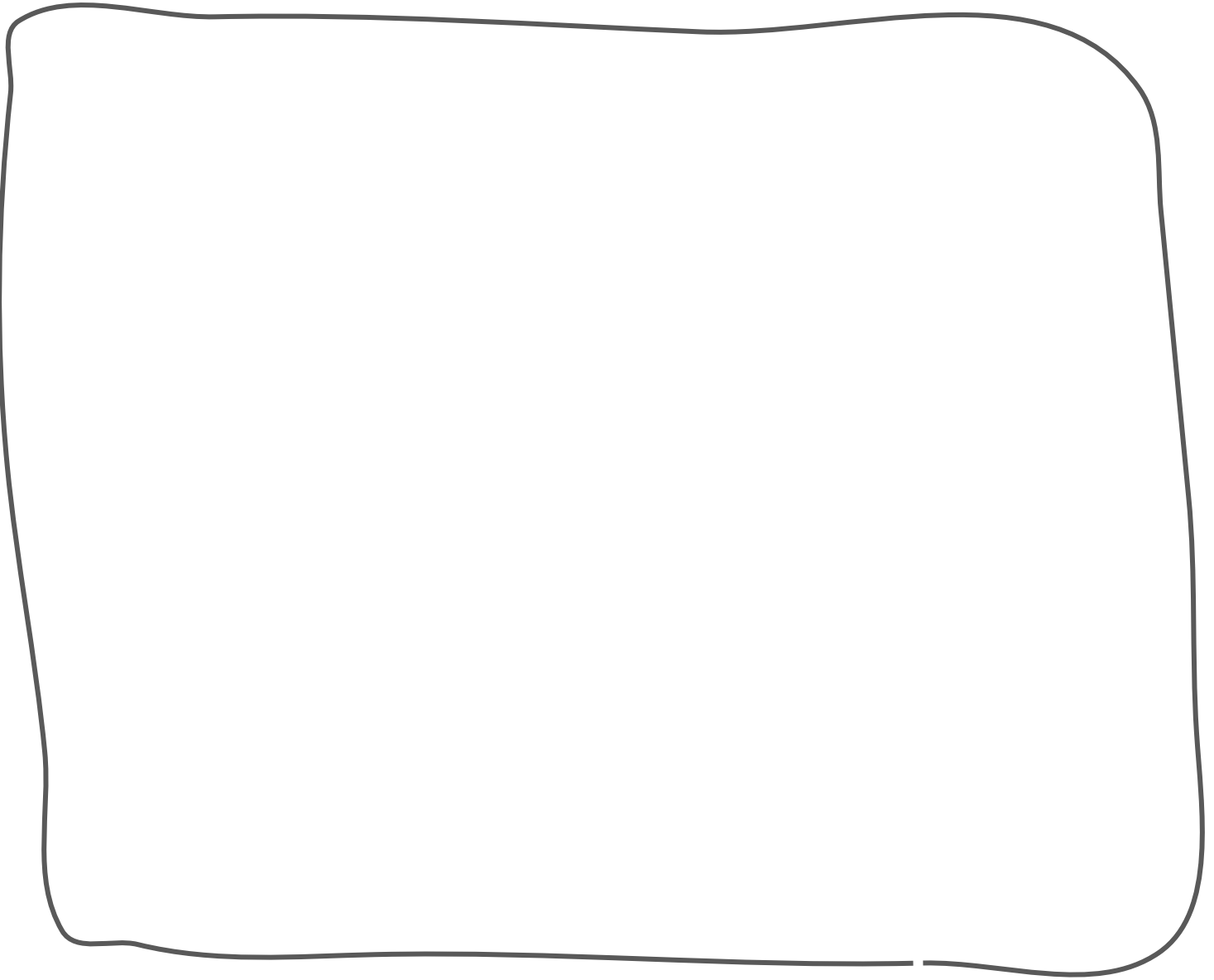


← What does this color mean?

mystery science

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

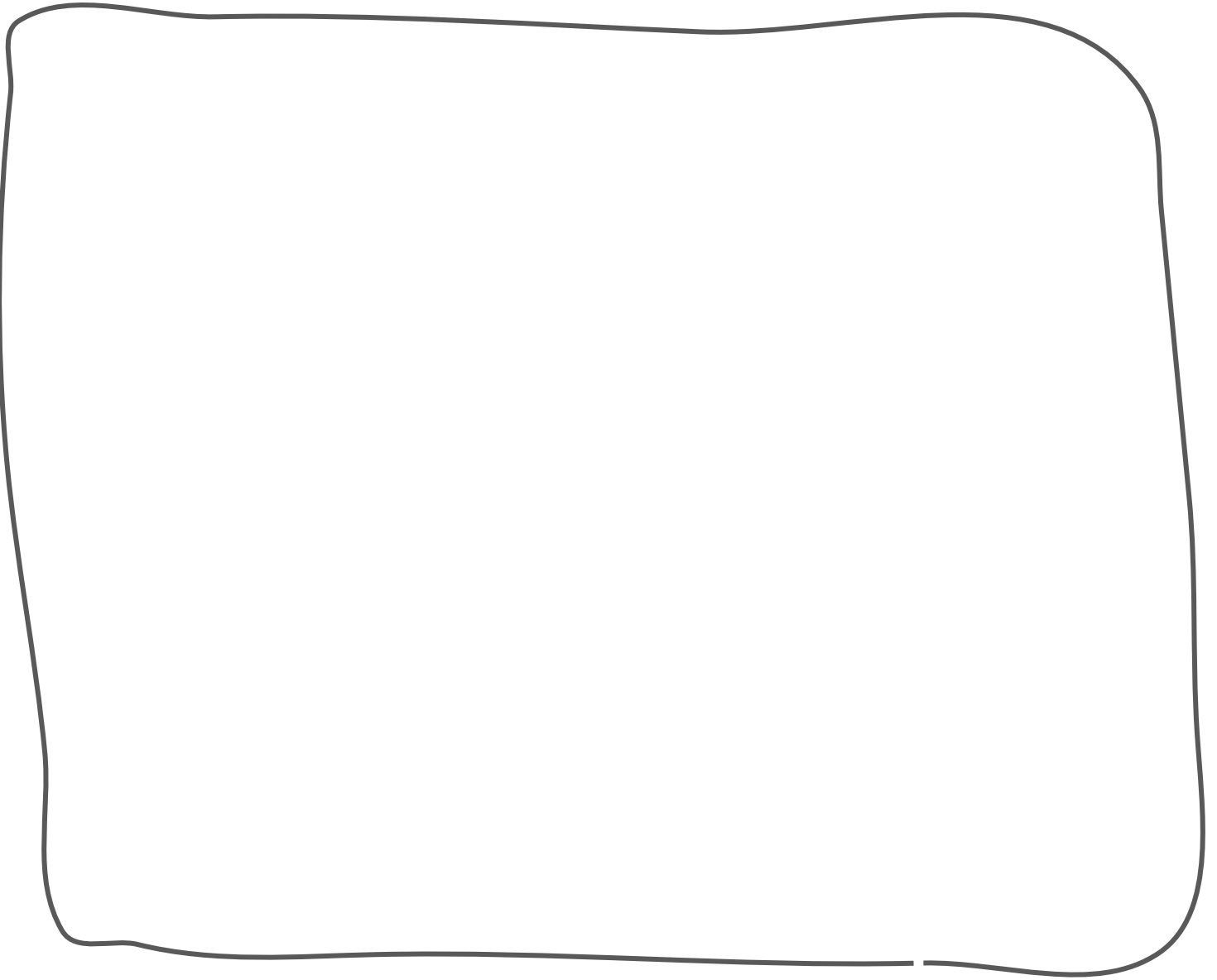
Name:



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 _____.