TEAMMS

SCIENCE PROCESS SKILLS



MASTERY FOCUS

STEM

MARS BOOK

4



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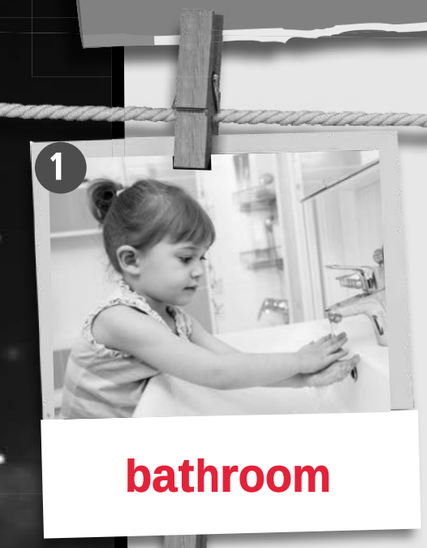
WROOOM!

LESSON 1

STEM SKILL
Generalizing

Write the most suitable place under each action. Not all the places will be used.

kitchen	living room	bedroom	bathroom
dining room	basement	balcony	yard



1 bathroom



2 dining room



3 living room



4 kitchen



5 bedroom

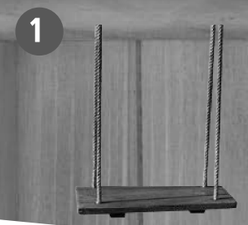


6 yard

STEM SKILL
Generalizing

Where do you usually find these objects? Write the name of the room or place.





1 yard



2 bathroom



3 garage



4 kitchen



5 living room



6 bedroom

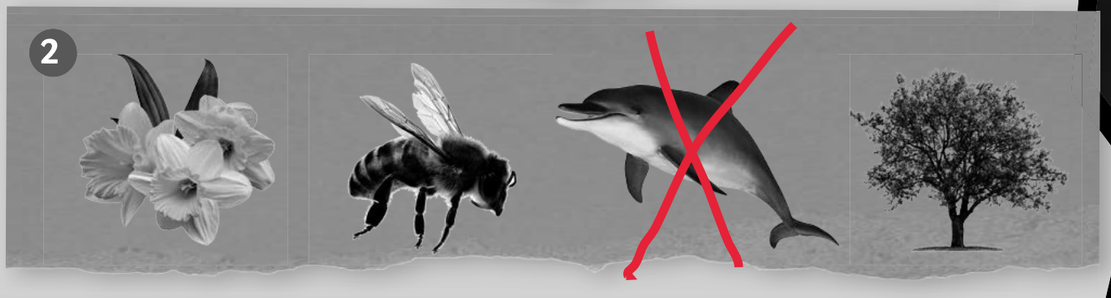
STEM SKILL
Classifying

Cross out the object that does not belong.

1



2



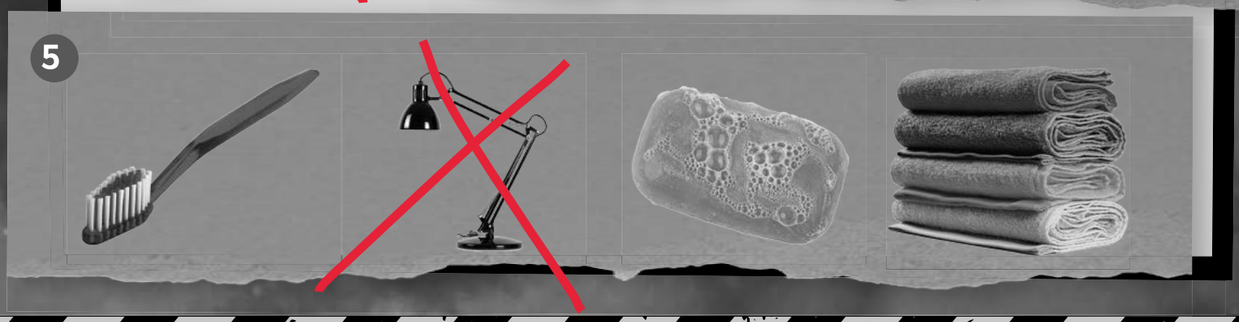
3



4



5



STEM SKILL
Observing

Look at the pictures and answer the questions.

My House



1. How many tables are there?

   There are five tables.

2. How many chairs are there?

   There are eight chairs.

3. How many fans are there?

   There are two fans.

4. How many clocks are there?

   There are two clocks.

LESSON 2

STEM SKILL
Generalizing

Write the correct place for each picture. Not all the places will be used.

1



fire station

2



dentist's office

3



drugstore

4



police station

5



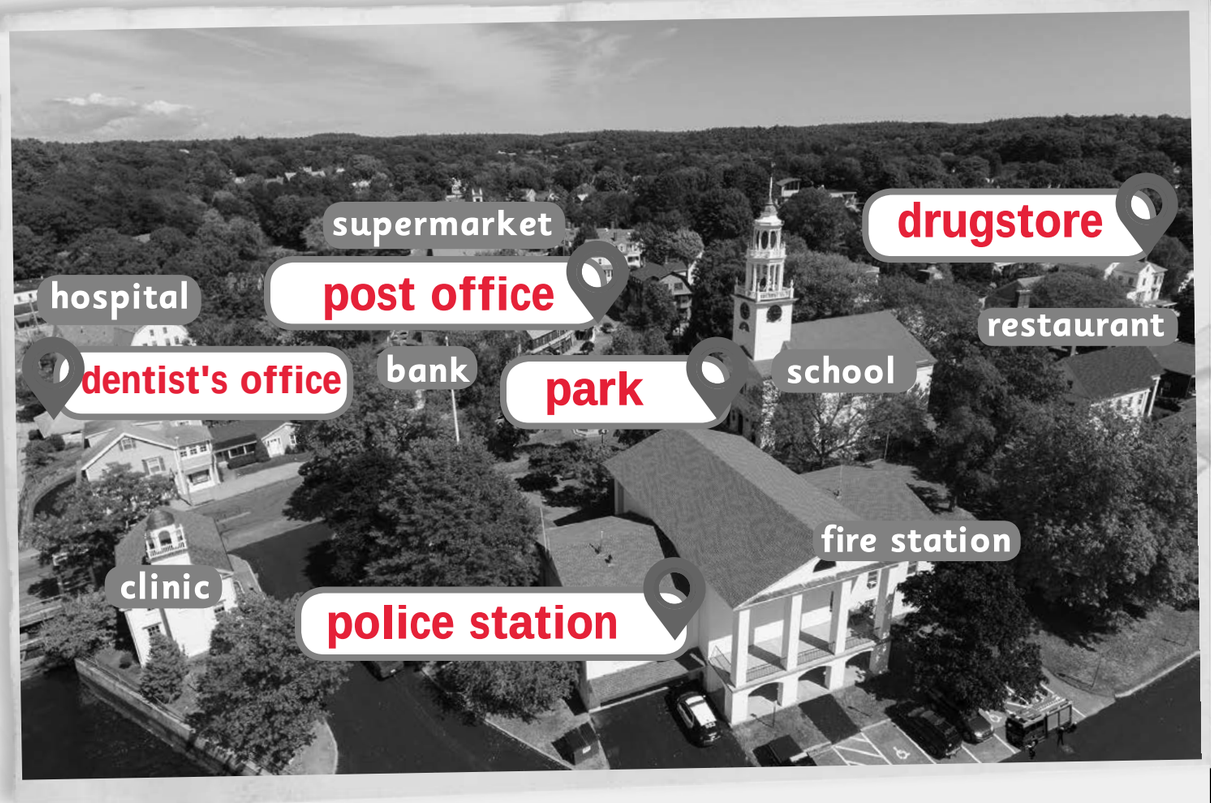
post office

- dentist's office
- post office
- mall
- police station
- drugstore
- bank
- fire station
- restaurant

STEM SKILL
Drawing Conclusions

Read the sentences and complete the map by writing the correct place in each blank.

- The police station is next to the fire station.
- The post office is between the bank and the supermarket.
- The dentist's office is between the hospital and the clinic.
- The drugstore is next to the restaurant.
- The park is next to the school.



STEM SKILL
Generalizing

Match the clothing with the place where it is usually worn. Then write the name of the place.



1 police station

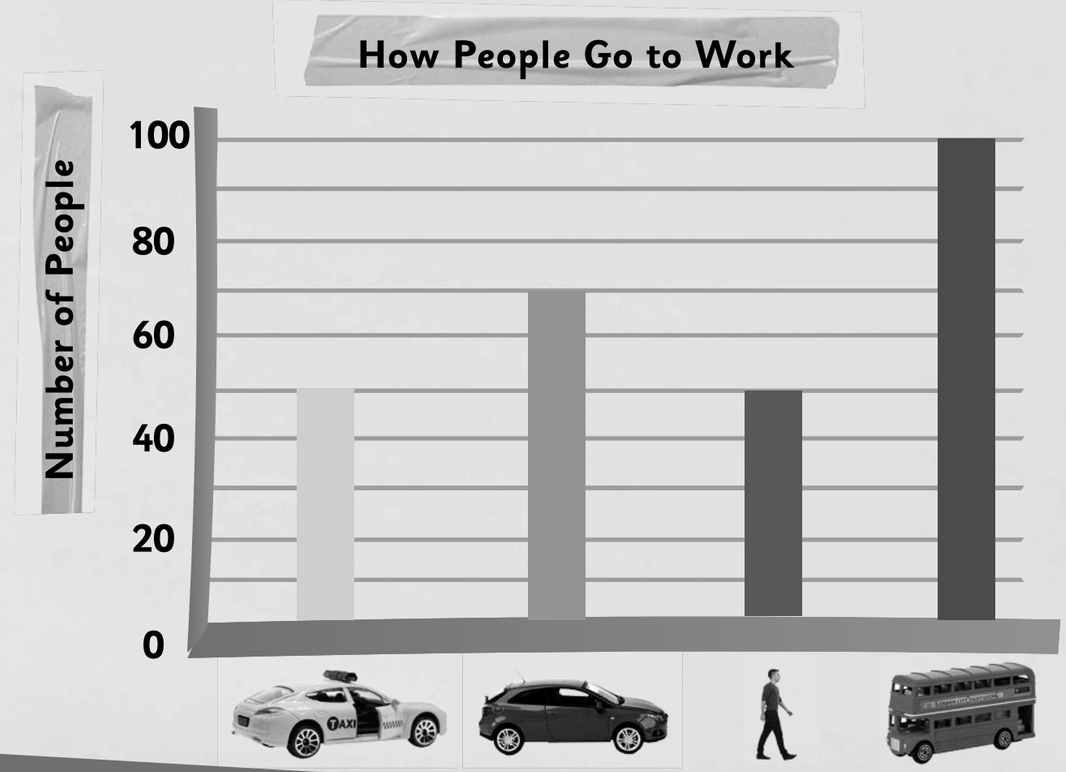
2 bank

3 fire station

4 dentist's office

STEM SKILL
Drawing Conclusions

This graph shows how people in Mary's neighborhood go to work.



1 How many people go to work by bus?

One hundred people go to work by bus.

2 How many people go to work on foot?

Fifty people go to work on foot.

3 How many people go to work by taxi?

Fifty people go to work by taxi.

4 How many people go to work by car?

Seventy people go to work by car.

LESSON 3

STEM SKILL
Generalizing

Which body part is the most used when doing the action? Write the letters in the correct categories.

a. throw b. catch c. kick d. hit
e. pull f. run g. push h. hop
i. cry j. laugh k. jump l. shout



Ex. a

b d e g

i j l

k f h c

STEM SKILL
Generalizing

Write the correct action(s) for each picture.



1

hit



2

catch



3

throw, catch

pull catch
hit kick
push throw



4

kick



5

pull



6

push

STEM SKILL
Drawing Conclusions

Which student is the most suited for which sports team? Write the names of the students in the boxes. Some students can be on both teams.

This diagram shows what each student is good at.



Nancy
catching / throwing



Tom
kicking / catching



Julie
throwing / hitting



Bob
kicking / running

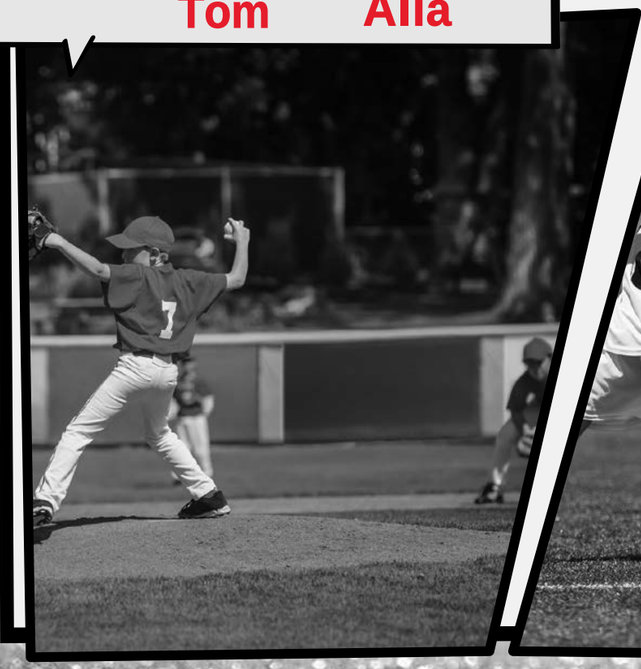


Alia
catching / kicking



Sam
hitting / catching

Ex. Nancy Julie Sam Tom Alia



Tom Bob Alia



STEM SKILL
Generalizing

Write the most likely reaction for each situation. The words can be used more than once.

cry laugh shout



shout



shout, laugh



shout

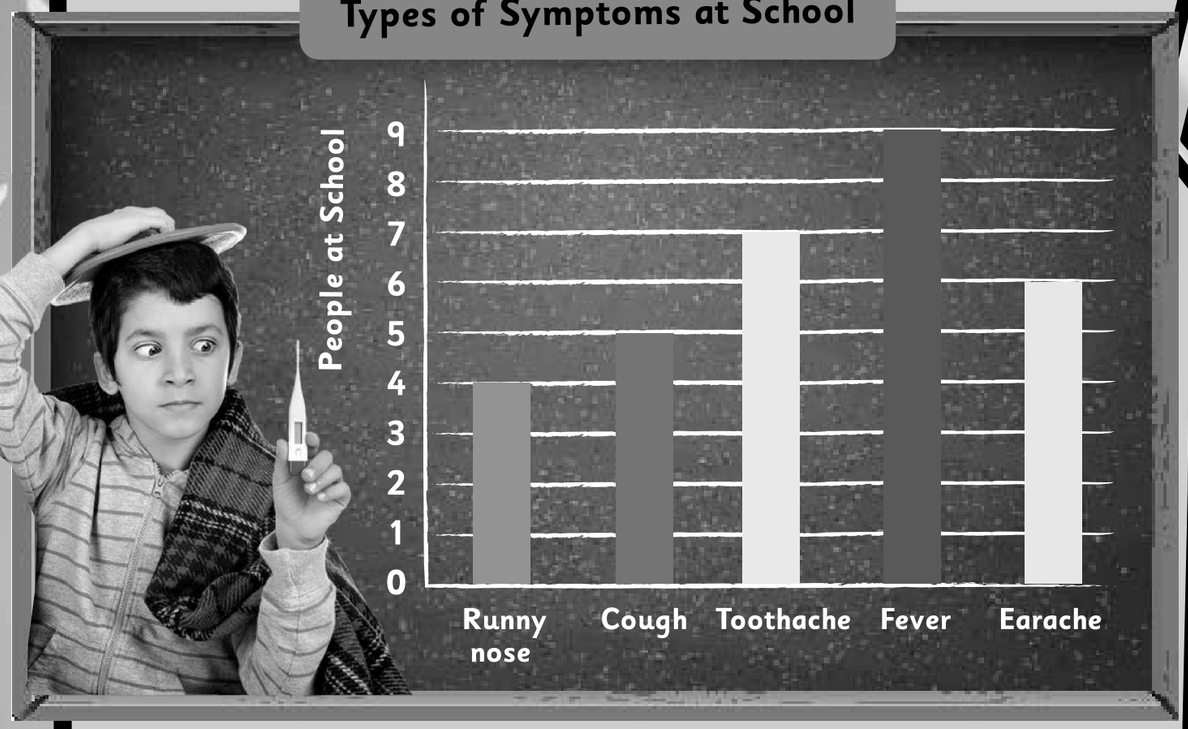


cry

LESSON 4

STEM SKILL
Drawing Conclusions

Look at the graph and complete the sentences.



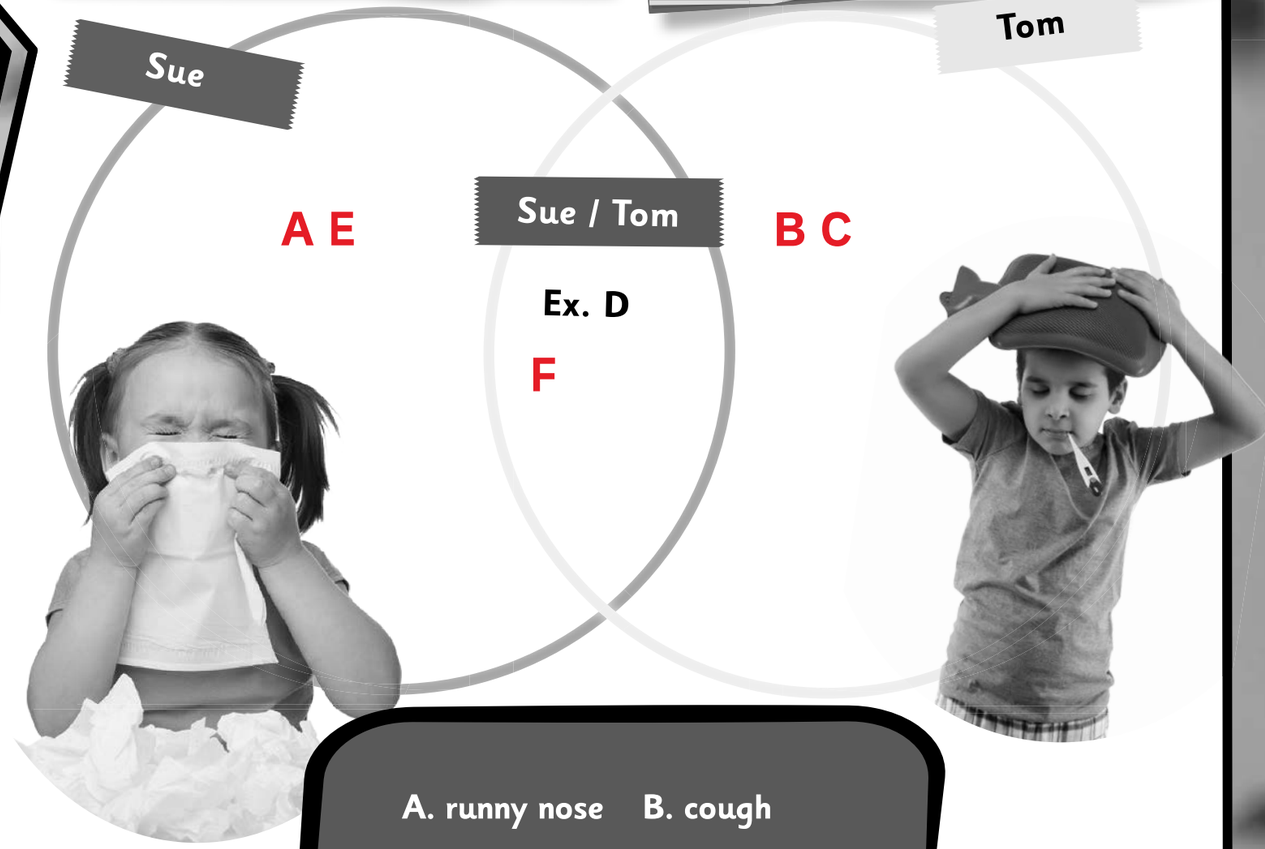
1. **Five** people at school have a cough.
2. Six people at school have an **earache.**
3. **Nine** people at school have a fever.
4. Seven people at school have a **toothache.**

STEM SKILL
Interpreting and Organizing Data

Read the sentences. Then write the letter of the correct cold symptom in each part of the diagram.

Sue has a cold. She has a sore throat, a runny nose, an earache, and a fever.

Tom has a cold. He has a headache, a fever, a cough, and an earache.



A. runny nose B. cough
C. headache ~~D. fever~~
E. sore throat F. earache

STEM SKILL
Classifying

Write the correct sickness or symptom for each body part.

stomachache

toothache

sore throat

earache

runny nose



1. earache
2. runny nose
3. toothache
4. sore throat
5. stomachache

STEM SKILL
Drawing Conclusions

Write the most likely sickness or symptom for each picture.

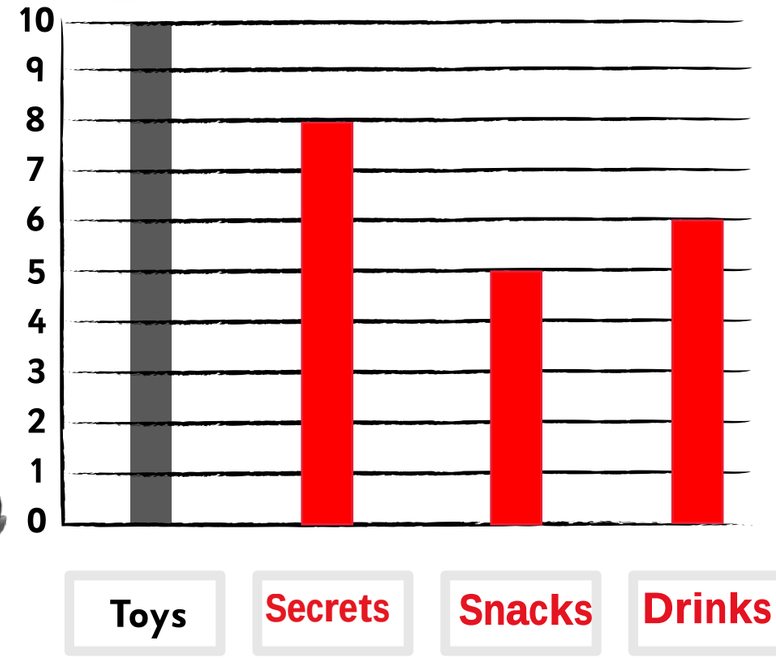
Column A	Column B
1 	toothache
2 	sore throat
3 	runny nose
4 	stomachache

LESSON 5

STEM SKILL
Interpreting and Organizing Data

Read the statements and make a bar graph.





- Ex. Ten people share toys.
- Eight people share secrets.
- Five people share snacks.
- Six people share drinks.



STEM SKILL
Drawing Conclusions

Read each description and check the best picture.



1 John and Jane will share a lunch. John will eat two burgers and five grapes. Jane will eat one burger and seven grapes. Which lunch box should they share?



☐ ☐ V

2 Tom doesn't like green grapes, but he likes vegetable burgers. Mary likes green and purple grapes. But she doesn't like vegetable burgers. Which lunch should they share?



☐ V ☐



STEM SKILL
Drawing Conclusions

Read what each student says and match what you need to give from the class cupboard to that student.

You are the cupboard manager of your class.



1



2



3



4



5



STEM SKILL
Inferring

Who is probably telling the truth? Who is probably telling a lie?

1





No, I didn't eat the cookie.

Truth ☐ Lie ☑

2





Yes, I washed my face and hands.

Truth ☑ Lie ☐

3





Yes, I combed my hair.

Truth ☑ Lie ☐

4





No, I didn't kick the ball.

Truth ☐ Lie ☑

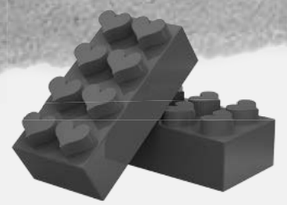
LESSON 6

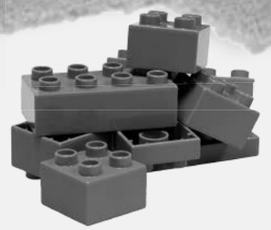
STEM SKILL
Drawing Conclusions

Use the table and the pictures of the toys to answer the questions. Circle the answers.

	Julie's toy	Joan's toy	Mark's toy	Ricky's toy
has ears		✓		✓
is blue		✓	✓	
is soft		✓		✓
is hard	✓		✓	


rabbit


red blocks

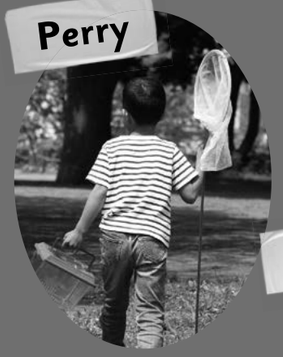

blue blocks


teddy bear

1. Which toy is Julie's? rabbit / red blocks / blue blocks / teddy bear
2. Which toy is Mark's? rabbit / red blocks / blue blocks / teddy bear
3. Which toy is Joan's? rabbit / red blocks / blue blocks / teddy bear
4. Which toy is Ricky's? rabbit / red blocks / blue blocks / teddy bear

STEM SKILL
Inferring

Look at the pictures and write the correct letter in each box.


Perry

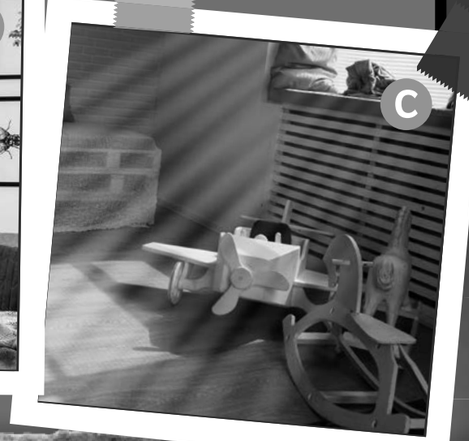

Jake


Gary


Kathy


A


B

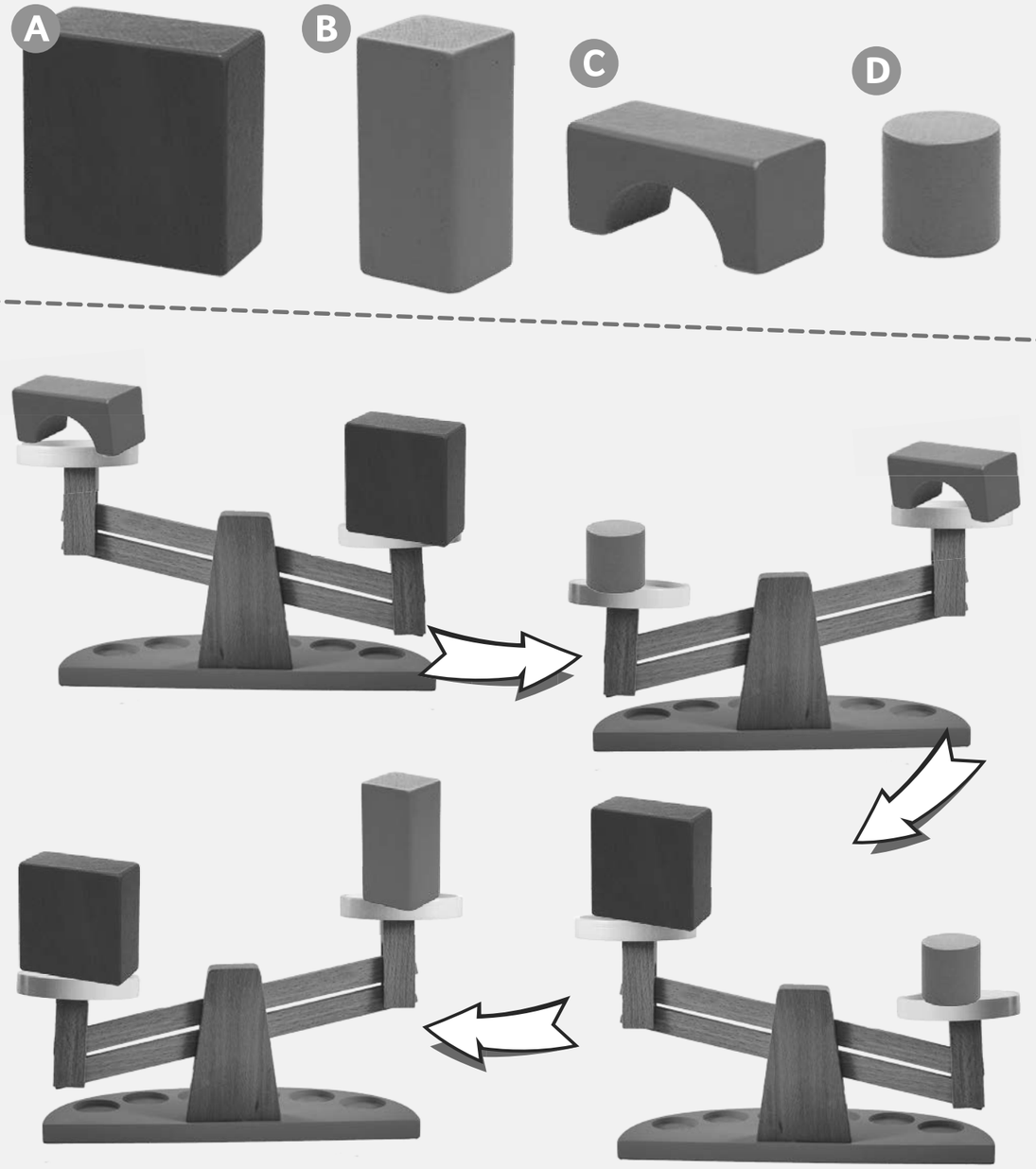

C


D

1. Which room is Kathy's room? A
2. Which room is Perry's room? B
3. Which room is Jake's room? C
4. Which room is Gary's room? D

STEM SKILL
Drawing Conclusions

Look at the balances. The lower block on the scale is heavier. Which block is the heaviest?

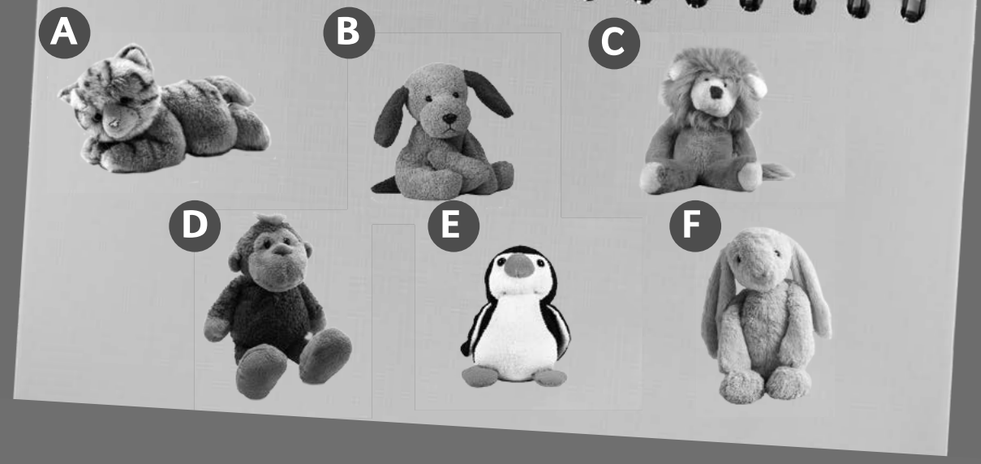


The heaviest block is the D **block.**

STEM SKILL
Classifying

Sort the stuffed animals by writing each letter in the correct basket.

Be careful – some of them belong to more than one basket.



1. short ears — A D E C
2. long ears — B F
3. four legs — A B C F
4. two legs — D E

LESSON 7

STEM SKILL
Classifying

Sort the objects below by writing each letter in the correct basket.

A 

B 

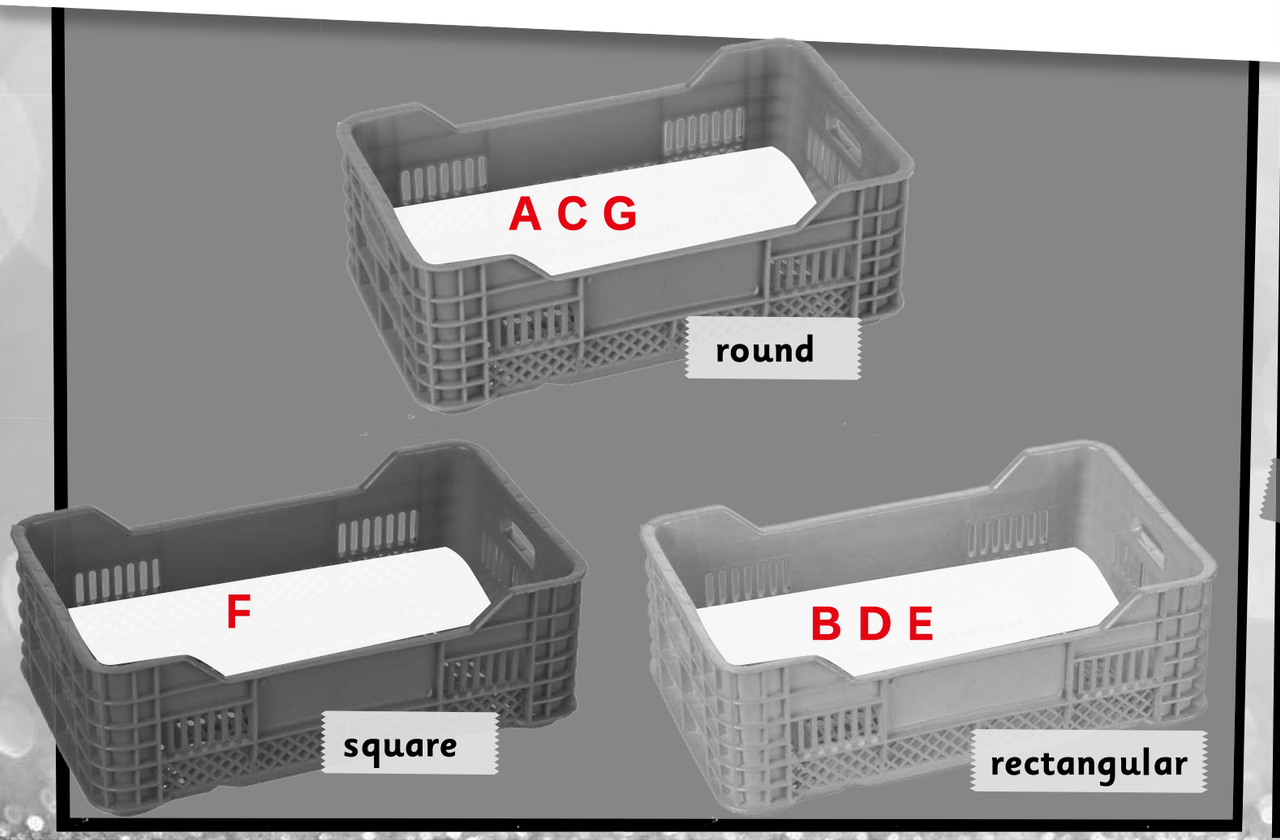
C 

D 

E 

F 

G 



STEM SKILL
Generalizing

Where will you most likely find these items? Write each letter in the correct place.

A roller skates B paintbrushes C fruit

D colored pencils E teddy bear F paint

A C

1 

E

2 

A C

3 

B D F

STEM SKILL
Predicting

Circle the correct answer.



Imagine that you have roller skates on. Answer the questions.

1 On which hill will you roll down faster?



2 On which hill will it be harder to go up?



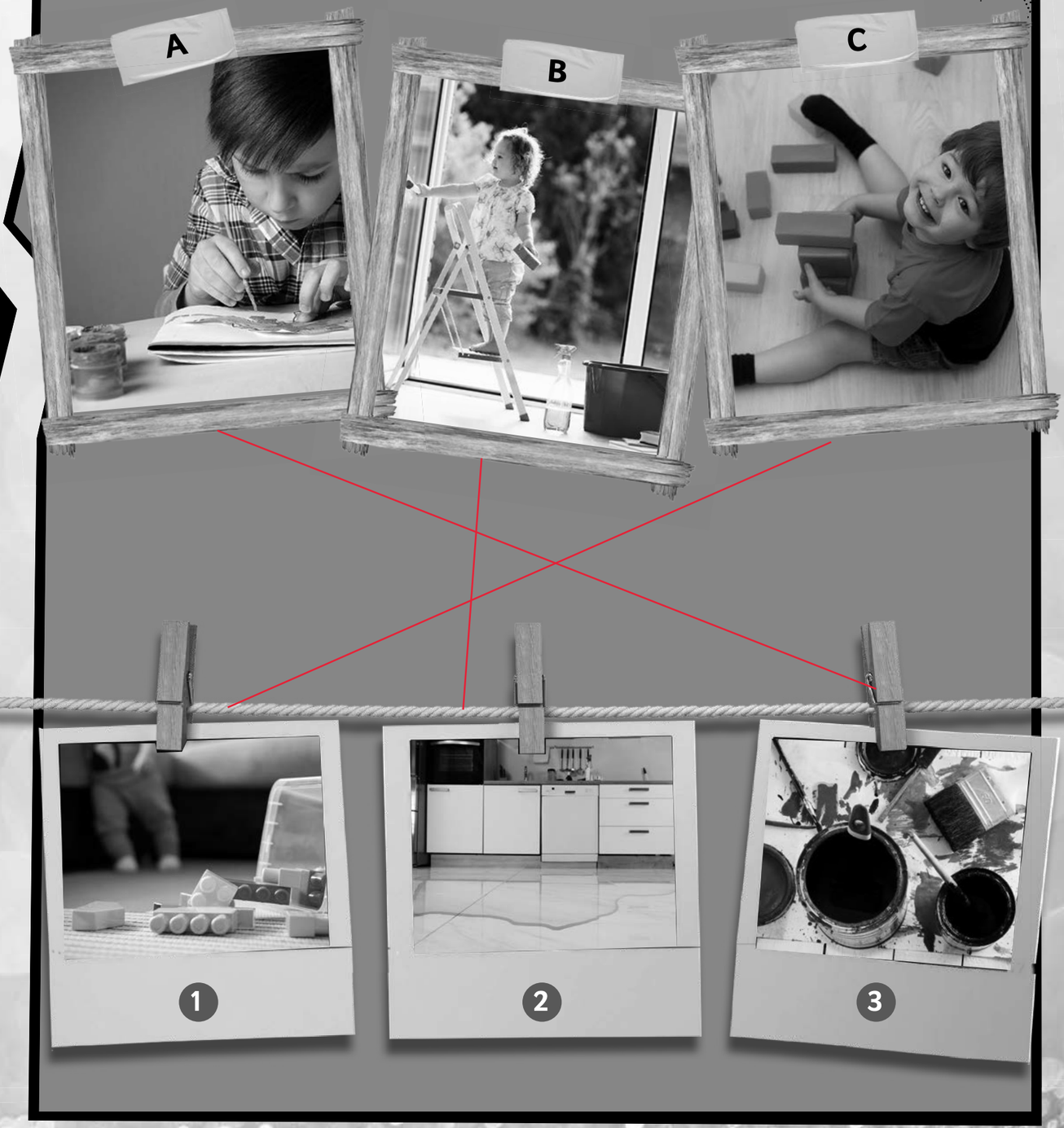
3 Which hill will be more tiring to skate on?





STEM SKILL
Drawing Conclusions

Draw a line from the person to the mess they made!



LESSON 8

STEM SKILL
Interpreting and Organizing Data

Look at the pictures and describe the fruit.

Shapes: round, square, oval

1

Outside color: orange
Inside color: orange
Shape: round
Size:
☐ Very small ☑ Small
☐ Big ☐ Very big

2

Outside color: purple
Inside color: white
Shape: round
Size:
☑ Very small
☐ Small
☐ Big
☐ Very big

3

Outside color: green
Inside color: red
Shape: round
Size:
☐ Very small
☐ Small
☐ Big
☑ Very big

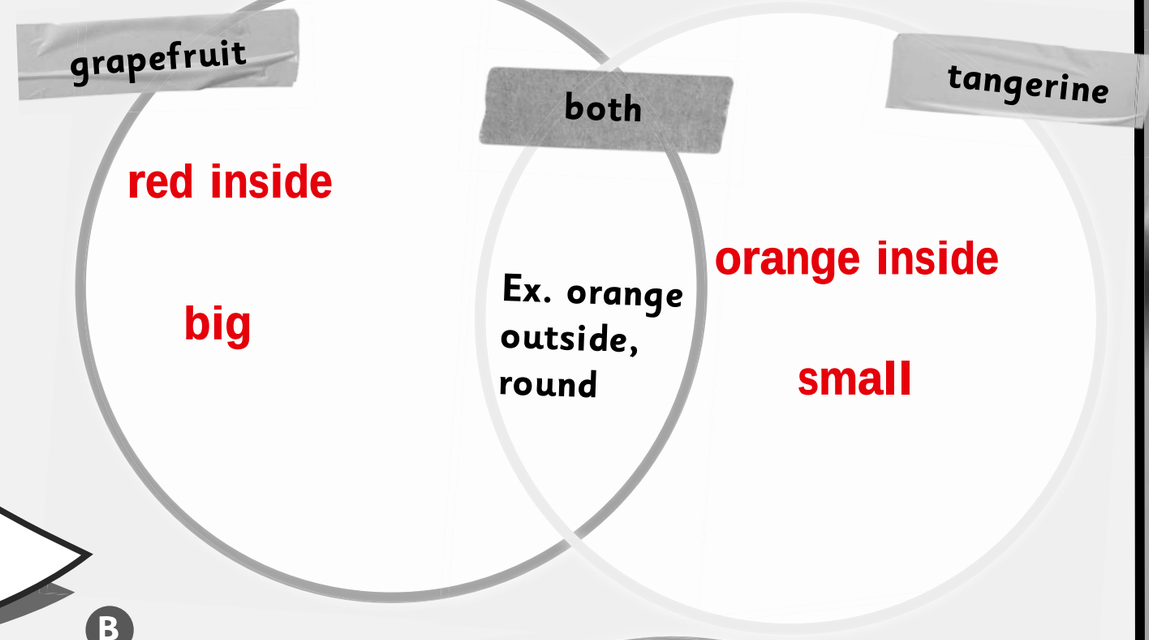
4

Outside color: orange
Inside color: pink
Shape: round
Size:
☐ Very small ☐ Small
☑ Big ☐ Very big

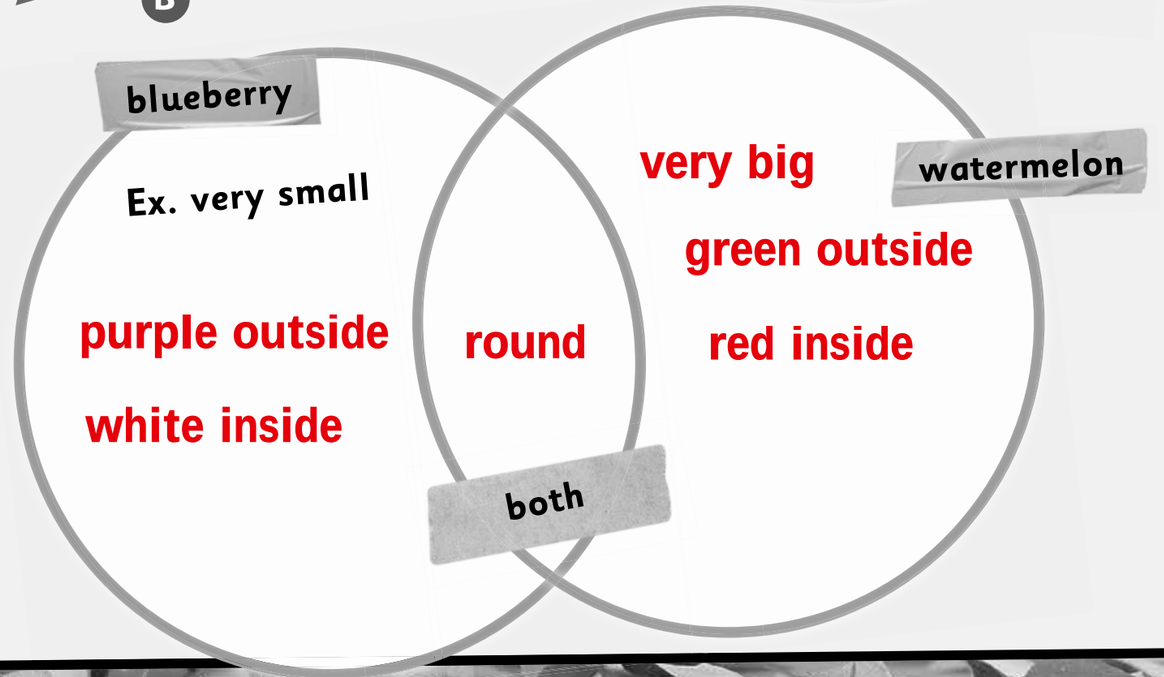
STEM SKILL
Comparing and Contrasting

Use the information from page 29 to compare the grapefruit and the tangerine. Then compare the blueberry and the watermelon.

A



B



STEM SKILL
Generalizing

What do plants need to grow? Look at the picture and circle the things plants need.

What plants need to grow:

A

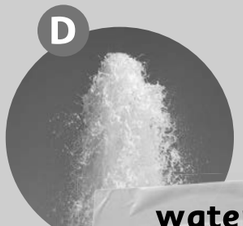
light

B

air

C

soil

D

water

E

space to grow

Circle the things plants need.

Ex. light



STEM SKILL
Experimenting and Planning

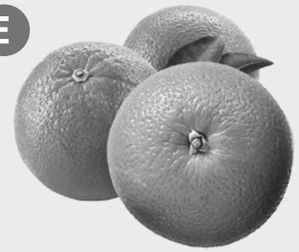
How can we make orange juice? Look at the things we have. Plan how you would make orange juice. Use as many things as you want.

A


B


C


D


E


F


How to Make Orange Juice

Step 1	Step 2	Step 3
C E	F	A B D

Answers may vary.

LESSON 9

STEM SKILL
Classifying

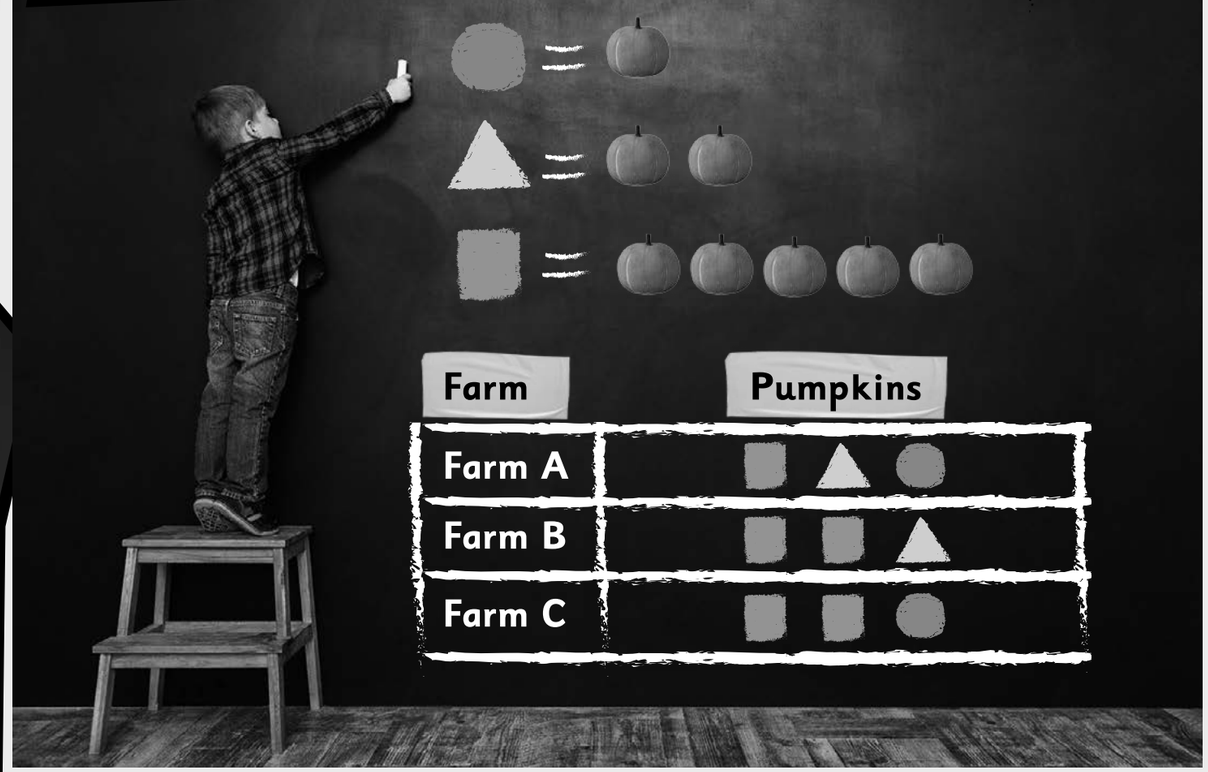
Sort the vegetables by writing them in the correct categories.



long	round
corn carrot cucumber	tomato onion pumpkin

STEM SKILL
Interpreting and Organizing Data

Use the table to answer the questions.



1. How many pumpkins are there at Farm A?
   There are eight pumpkins at Farm A.
2. How many pumpkins are there at Farm B?
   There are twelve pumpkins at Farm B.
3. How many pumpkins are there at Farm C?
   There are eleven pumpkins at Farm C.
4. Which farm has the most pumpkins?
   Farm B has the most pumpkins.
5. Which farm has the least pumpkins?
   Farm A has the least pumpkins.

STEM SKILL
Measuring

Look at the vegetables. Each one takes up a different amount of space. How many of each vegetable can you plant?

Ex.



= 2 squares

I can plant 40 onions.

1



= 4 squares

I can plant 20 potatoes.

2



= 20 squares

I can plant 4 pumpkins.

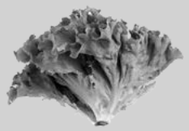
3



= 3 squares

I can plant 26 carrots.

4



= 5 squares

I can plant 16 heads of lettuce.

STEM SKILL
Making a Hypothesis

What can we use as wheels for a toy car? Choose the three best vegetables, and write the names in the basket.



Three Best Vegetables to Use as Wheels



A, C, I

Answers may vary.

LESSON 10

STEM SKILL
Predicting

Circle the fastest person.

1 Who will reach the pool first?



A



walk

B



skip

2 Who will reach the tree first?

A



run

B



jump



3 Who will reach the bottom of the stairs first?

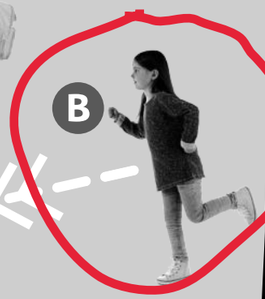


A



walk

B



run

STEM SKILL
Predicting

Key

= sunny = rainy

= cloudy = windy

Limeville	Beach City	Hill Town	Tree Cove
			

They are going to run up a hill. The hills are in different cities, but they have the same distance and slope. Who is going to feel more tired? Sort the people from the least tired to the most tired.

A 

Mark He is in Beach City. He is going to run up a hill.

B 

Jane She is in Hill Town. She is going to run up a hill.

C 

Gary He is in Limeville. He is going to run up a hill.

D 

Karen She is in Tree Cove. She is going to run up a hill.

least tired C ⇨ A ⇨ D ⇨ B most tired

STEM SKILL
Generalizing

Look at the pictures and draw a circle around the animal that chases and a triangle around the animal that hides.



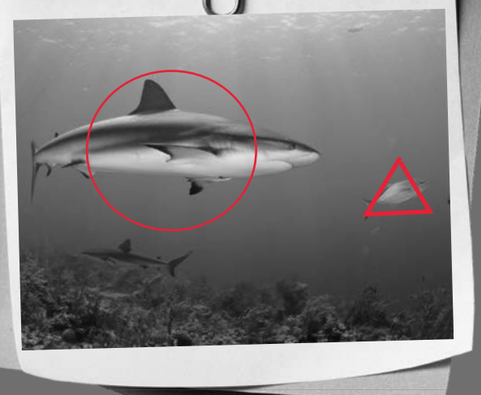
Some animals chase their food.



Other animals hide so that they are not eaten!

O → chases
Δ → hides

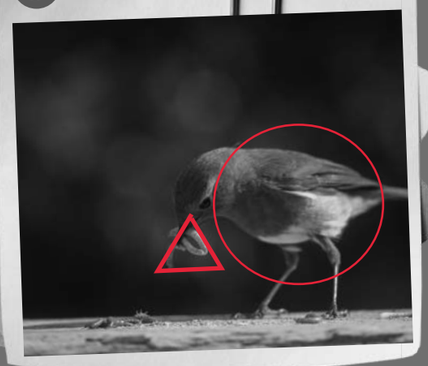
1



2

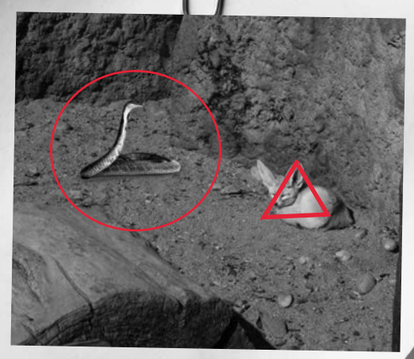


3



Some foxes eat snakes.

4

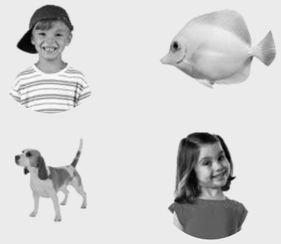


STEM SKILL
Inferring

Look at the pictures and answer the questions.

A





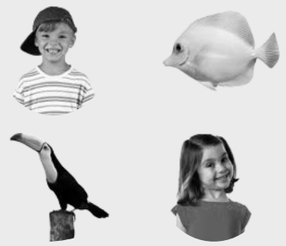
	can't swim
	can swim

Who can run up the hill?

boy, girl, dog

B





Who can swim under the water?

fish, girl

C





Who can climb up the tree?

boy, monkey

LESSON 11

STEM SKILL
Making a Hypothesis

Look at the picture and check how to go to each place. There can be more than one way.



	Bus, Train, Car	Airplane
I am going to Hill City. Which kind of transportation can I take?	V	
I am going to Beach City. Which kind of transportation can I take?	V	
I am going to Tree Cove. Which kind of transportation can I take?		V

STEM SKILL
Drawing Conclusions

Look at the chart and answer the questions.

Vacation Choices

City	Number of Attractions				
	Library	Beach	Museum	Zoo	Movie Theater
Beach City	2	7	2	4	4
Tree Cove	7	2	4	7	7
Hill City	7	6	5	3	5
Limeville	3	3	5	7	7

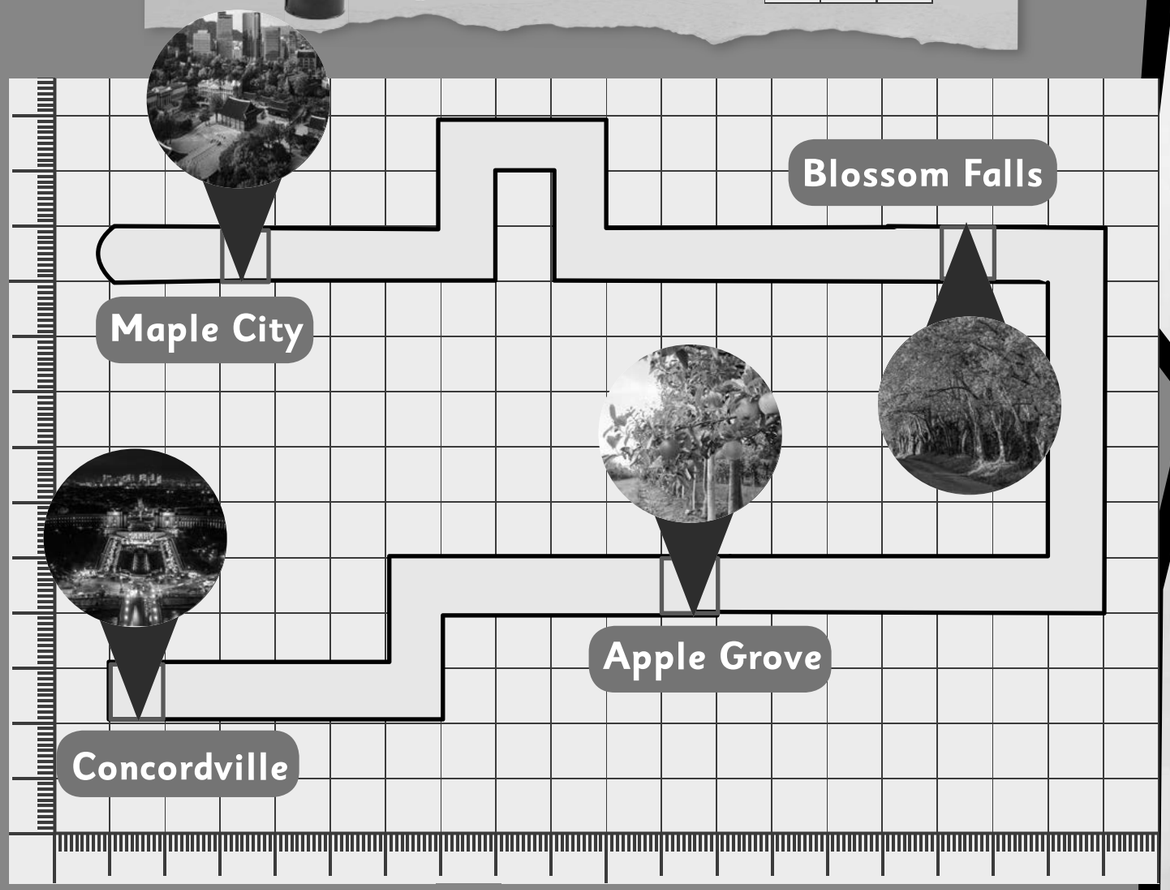
Ann, Peter, Grace, and Lucy are deciding where to go for vacation. They can only go to one city.

1.  **Ann** loves museums and movies. Where should she go?
   She should go to Limeville.
2.  **Peter** loves to read and watch movies. Where should he go?
   He should go to Tree Cove.
3.  **Grace** loves animals and museums. Where should she go?
   She should go to Limeville.
4.  **Lucy** loves swimming and going to museums. Where should she go?
   She should go to Hill City.

STEM SKILL
Interpreting and Organizing Data

Look at the map and answer the questions.

One  of gas can travel three ☐☐☐.

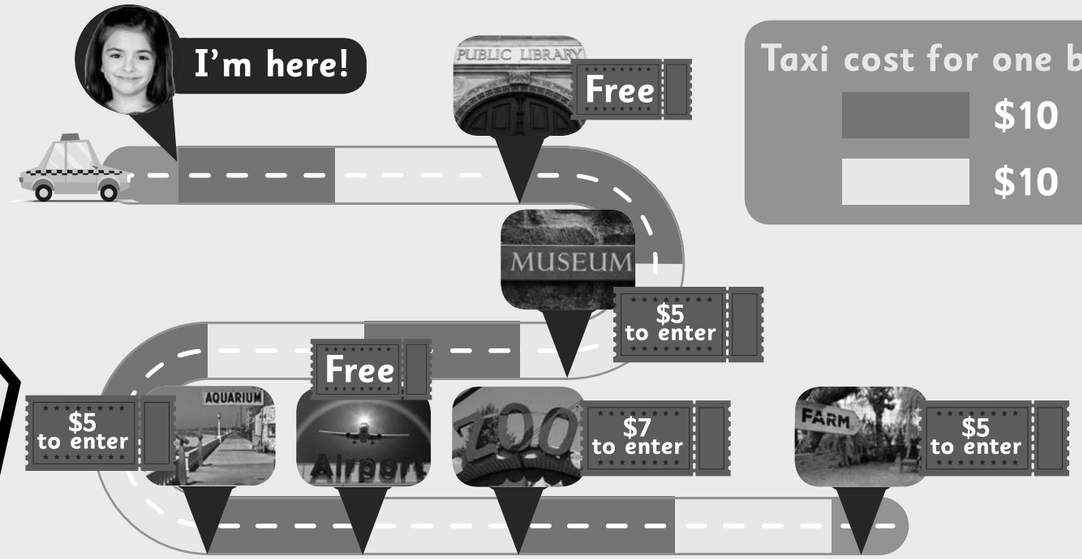


How many  will it take to travel...

1. From Maple City to Blossom Falls **6**
2. From Concordville to Apple Grove **4**
3. From Apple Grove to Maple City **11**
4. From Blossom Falls to Concordville **9**
5. From Maple City to each city once **15**

STEM SKILL
Drawing Conclusions

Look at the diagram and answer the questions.



1. If she has $65, which places can she go to? Circle them.



2. If she has $75, which places can she go to? Circle them.



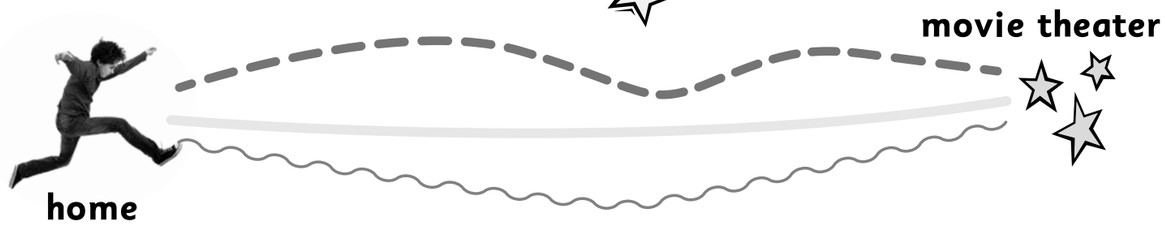
3. She has $135. She wants to go to the aquarium, but she also wants to go to the farm. Cross out the place she cannot go to.



LESSON 12

STEM SKILL
Drawing Conclusions

Look at the diagram and answer the questions.



	taxi	subway	bus
to the movie theater	$8	$5	$3
back home	$9	$5	$3

movie ticket	$10
snack	$5



Bill is at home. He wants to go watch a movie. He has $40, but he wants to save $10. At the movie theater, Bill will eat a snack.

Answers may vary.

List three different ways of how Bill can go to the movie theater and come back home.

	To Movie Theater	To Home	$ Remaining
1	subway	subway	$15
2	taxi	bus	$14
3	bus	bus	$19

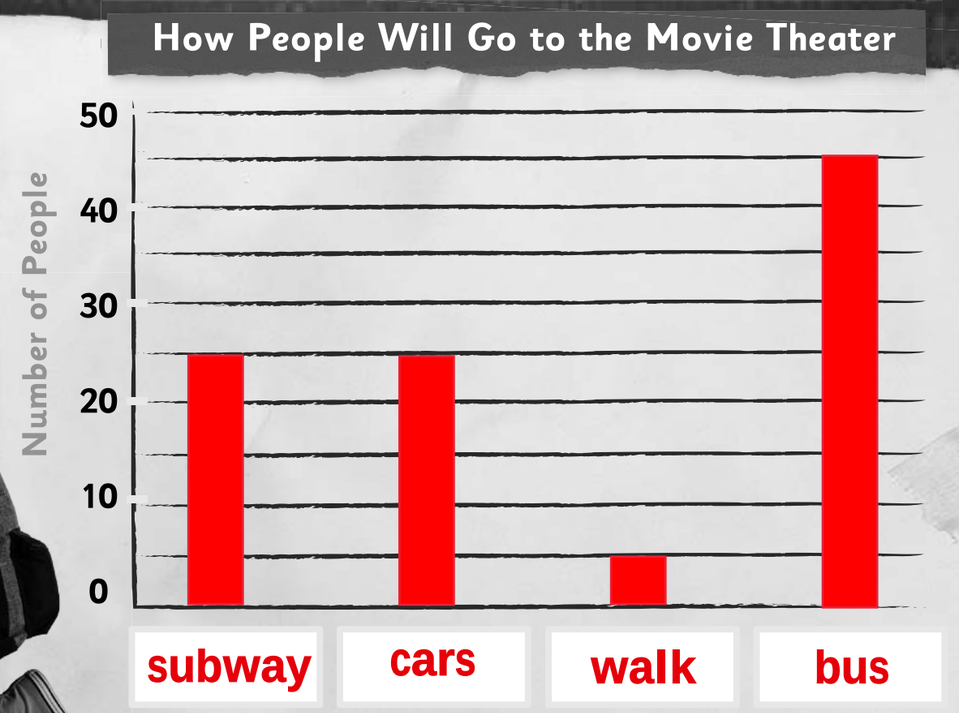
STEM SKILL
Interpreting and Organizing Data

Read the sentences and make a bar chart.

- 100 people will go to the movie theater.
- 25 people will take the subway.
- 25 people will drive their cars there.
- Five people will walk there.
- The rest of the people will take the bus.







STEM SKILL
Generalizing

Look at the vehicles and put them in the correct categories.

A 

B 

C 

D 

E 

F 

G 

H 

I 

J 

1. How do we travel on the ground?

Ex. C A B C D F

2. How do we travel underground?

G

3. How do we travel in the air?

E J

4. How do we travel on water?

H I

STEM SKILL
Generalizing

Look at the pictures and circle the correct answers.

How Things Move



moves things away



brings things closer

Every action used to move something is either a pull or a push.

Is it a push or pull?

1. 

(push) pull

2. 

(push) pull

3. 

push (pull)

4. 

(push) pull

AMAZING JOB!

CERTIFICATE OF COMPLETION

THIS AWARD IS PRESENTED TO

for doing a wonderful job. Keep up the great work!

TEACHER

DATE

YOU DID IT!!