


storybook **STEM** THE PIGEON HAS TO GO TO SCHOOL

READY TO FLY




YOUR CHALLENGE:
Can you create a catapult that will launch your pigeon into the school?

YOU MAY USE:

- * 1 marker
- * 1 plastic spoon
- * 2 pipe cleaners
- * 1 cup

ZIP LINE ADVENTURE




YOUR CHALLENGE:
Can you create a zip line that will help your pigeon land inside the school?

YOU MAY USE:

- * 3

ROCKING & ROLLING



YOUR CHALLENGE:
Can you create a mini school bus that will roll your pigeon into the school?

YOU MAY USE:

- * 4 small foam balls
- * 2 toothpicks
- * 2 1-inch straw pieces
- * 4 linking cubes
- * tape
- * cup

MAKE YOUR WHEELS & AXLES:

- 1
- 2 Slide a straw piece over the toothpick.

GET THE PIGEON TO SCHOOL



Name: _____

CREATED BY BROOKE BROWN AND KATIE KING

3 STEM challenges

READY
.....
➔ TO FLY ➔



ROCKING & ROLLING
.....



**ZIP LINE
ADVENTURE**



GET THE PIGEON TO SCHOOL!

3 STEM CHALLENGES


READY TO FLY



YOUR CHALLENGE:
Can you create a catapult that will launch your pigeon into the school?

YOU MAY USE:
* 1 marker
* 1 plastic spoon
* 2 pipe cleaners
* pigeon cup
* box

ROCKING & ROLLING



YOUR CHALLENGE:
Can you create a mini school bus that will roll your pigeon into the school?

YOU MAY USE:
* 4 small foam balls
* 2 toothpicks
* 2 1-inch straw pieces
* 4 linking cubes

TO ASSEMBLE YOUR WHEELS & AXLES:
1. Insert a toothpick into a foam ball.
2. Slide a straw piece over the toothpick.

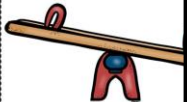

READY TO FLY

A **LEVER** is a bar that rests on a fulcrum that is used to move a load with one end when effort is applied to the other end.


A **CATAPULT** uses a lever to launch an object.

When you apply force to the lever on a catapult, it is called **STORED ENERGY**. When you release the lever and the object is launched, it is called **WORKING ENERGY**.

LEARN ABOUT LEVERS



ZIP LINE ADVENTURE



YOUR CHALLENGE:
Can you create a zip line that will help your pigeon land inside the school?

YOU MAY USE:
* 3-4 yards of fishing line
* 1 large paper clip
* tape
* pigeon cup
* box

ROCKING & ROLLING



A **VEHICLE** is a machine that is used to transport goods or people.

Vehicles such as cars and small school buses have 4 wheels and 2 axles.

A **WHEEL** is a circular object that revolves around a rod called an **AXLE** that allows a vehicle to roll.

Wheels and axles rotate together to reduce **FRICTION** and make work easier.

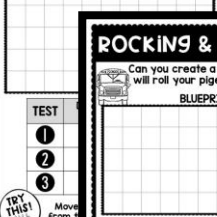
LEARN ABOUT WHEELS AND AXLES



READY TO FLY

Can you create a catapult that will launch your pigeon into the school?

BLUEPRINT



TEST

1
2
3

TRY THIS! Move from 1 to 2 to 3. Move your pigeon into the box!

ZIP LINE ADVENTURE

Can you create a zip line that will help your pigeon land inside the school?

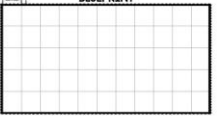
BLUEPRINT



ROCKING & ROLLING

Can you create a mini school bus that will roll your pigeon into the school?

BLUEPRINT



TEST

1
2
3



TRY THIS! Move your school bus farther away from the box. How far away can you move it and roll your pigeon into the box? _____ cm

GET THE PIGEON TO SCHOOL




Name: _____

LEARN ABOUT FRICTION



LET'S REFLECT!

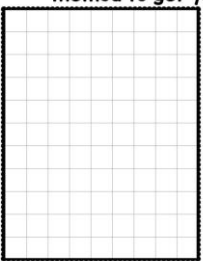


- Which challenge was most difficult and why?
- Which challenge was easiest and why?
- Which challenge was your favorite and why?


PIGEON TRANSPORTER

Can you design a new and improved method to get your pigeon to school?

MATERIALS:



How does it work?



storybookSTEM



THE PIGEON
HAS TO GO
TO SCHOOL

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GOOGLE SLIDES
& SEESAW
FORMATS

READY TO FLY

TEST RESULTS

TEST DID YOUR PIGEON
LAND IN THE
SCHOOL?

1

2

3



Move your catapult
farther away
from the box.
How far away can you
move it and land your
pigeon in the box?

cm



Add a picture of your
finished catapult.

CREATED BY BROOKE BROWN & KATIE KING

GET THE PIGEON TO SCHOOL!

Can you design three different methods to get the pigeon to school?



- 1) READY TO FLY (catapult)
- 2) ZIP LINE ADVENTURE (zip line)
- 3) ROCKING & ROLLING (mini school bus)

BONUS CHALLENGE:
Design a Pigeon Transporter

**CLICK & SHARE
WITH STUDENTS
IN GOOGLE
SLIDES**

INTERACTIVE VIDEOS AND TEMPLATES

**CLICK & ASSIGN
ACTIVITIES
IN SEESAW**

Activity Library

Community My Library

storybookSTEM

THE PIGEON HAS TO GO TO SCHOOL

Brooke Brown

Assign...

Student Instructions

THE PIGEON HAS TO GO TO SCHOOL (STEM CHALLENGES)

CAN YOU CONSTRUCT 3 DIFFERENT WAYS TO GET THE PIGEON TO SCHOOL?

READY TO FLY (catapult)

You will need:

- * MARKER
- * TWO PIPE CLEANERS
- * PLASTIC SPOON
- * MINI CUP WITH PIGEON DRAWN ON IT
- * BOX (FOR THE "SCHOOL")

ZIP LINE ADVENTURE (zip line)

You will need:

- * 3-4 YARDS OF FISHING LINE
- * PAPERCLIP
- * MINI CUP WITH PIGEON DRAWN ON IT
- * BOX (FOR THE "SCHOOL")

ROCKING AND ROLLING (mini school bus)

You will need:

- * 4 SMALL FOAM BALLS OR BALLS OF PLAYDOUGH

Students will edit this template

1/18

STEM

GET THE PIGEON TO SCHOOL!

Can you design three different methods to get the pigeon to school?



- 1) READY (catapult)
- 2) ZIP LINE (zip line)
- 3) ROCKING (mini school bus)

BONUS: Design a Pigeon

ZIP LINE

A **ZIP LINE** is a system of pulleys and cables that is used to move an object across a distance.

Zip lines are built on a **S** from top to bottom.

A lack of **FRICTION** between the pulley and the cable allows the object to slide quickly down the zip line.

ZIP LINE ADVENTURE



ZIP LINE ADV

Can you create your pigeon?

ZIP LINE ADVENTURE

TEST RESULTS

DID YOUR PIGEON LAND IN THE SCHOOL?

TEST	1	2	3
1			
2			
3			



Stretch your zipline farther away from the box. How far away can you move it and land your pigeon in the box?

cm



Add a picture of your finished zip line.

READY TO FLY



YOUR C

Can you create a catapult to launch your pigeon into the school?

YOU MAY

- * 1 marker
- * 1 plastic spoon
- * 2 pipe cleaners
- * mini cup with a hole

READY TO FLY

TEST RESULTS

DID YOUR PIGEON LAND IN THE SCHOOL?

TEST	1	2	3
1			
2			
3			



Move your catapult farther away from the box. How far away can you move it and land your pigeon in the box?



Add a picture of your finished catapult.



PIGEON TRANSPORTER

Can you design a new and improved method to get your pigeon to school?

MATERIALS:

How does it work?

READY TO FLY

... that rests that is used with one end. ... is applied ... end. ... es a lever to

LEARN MORE ABOUT LEVERS!

Watch the video in the link in the

READY TO FLY

... create a catapult that will launch your pigeon into the school?

DRAW A BLUEPRINT

ROCKING & ROLLING



TO ASSEMBLE YOUR WHEELS & AXLES!

1. Insert a toothpick into a foam ball.
2. Slide a straw piece over the toothpick.
3. Add another foam ball to the other end of the toothpick.
4. Repeat to make another set.

YOUR

Can you create a mini school that will roll into the school?

ROCKING & ROLLING



Can you create a mini school that will roll your pigeon into the school?

DRAW A BLUEPRINT

ROCKING & ROLLING

TEST RESULTS

DID YOUR PIGEON ROLL INTO THE SCHOOL?

TEST	1	2	3
1			
2			
3			



Move your school bus farther away from the box. How far away can you move it and roll your pigeon into the box?

cm



Add a picture of your finished school bus.

ROCKING & ROLLING

A **VEHICLE** is a machine that is used to transport goods or people.

Vehicles such as cars and small school buses have 4 wheels and 2 axles.

A **WHEEL** is a circular object that revolves around a rod called an **AXLE** that allows a vehicle to roll.

Wheels and axles rotate together to reduce **FRICTION** and make work easier.

LEARN MORE ABOUT WHEELS AND AXLES!

Watch the video in the link in the instructions.



ELA

Directions: Help him feel better by telling him how it works at your school.

Watch the video about how Pigeon talks.

Use the link in the directions to watch a YouTube video where Mrs. King explains how the pigeon talks!



Math



Reading



HOW I GET TO SCHOOL...

bike walk car bus

In the morning: _____

In the afternoon: _____

PIGEON IS NERVOUS!

Put "yes" under the picture of things that made Pigeon nervous. Put "no" under the rest.

No Yes



Numbers



Bathrooms



Soccer



Lunch



Ghosts



Paint



Backpacks



Monsters

VOCABULARY

Match the vocabulary word to the correct picture. Use each word twice.

unknown

fragile

expert

anxious



expert



a person with a special skill

fragile



breaks easily

unknown



something you don't understand

anxious



uneasy or scared about an event

TEACHER TALK!

How did you feel before school today?

How do you feel now?

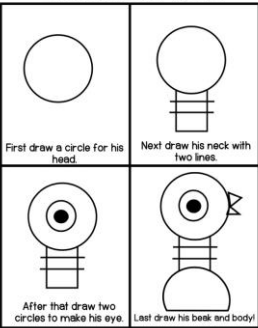
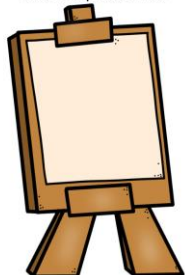


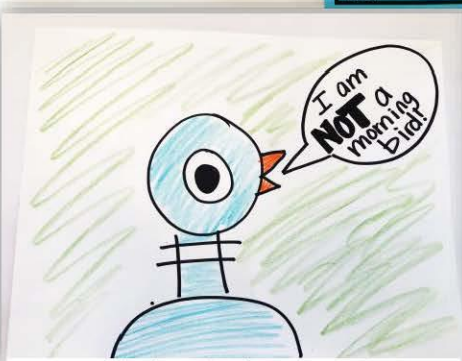
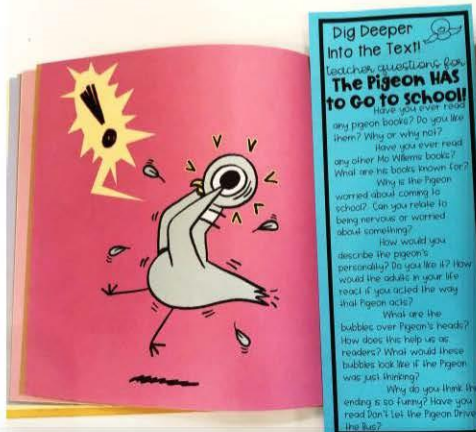
First Day Feelings



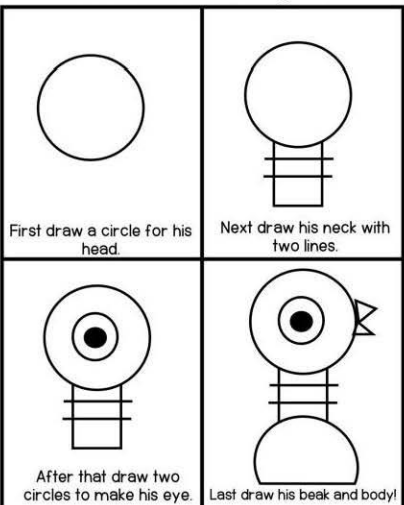
Let's learn to draw Pigeon!

Draw pigeon on paper. Include a speech bubble. Take a picture of your drawing and insert the picture here:





Let's learn to draw Pigeon!



HOW Pigeon Talks

- BOLD WORDS** ~> forceful
- STRETCHED OUT** ~> slowly... like a snail!
- LOTS OF ! ? ! ?** ~> yelling & confused
- HIGHLIGHTED** ~> Really means it
- LITTLE WORDS** ~> scared
- ALL CAPITALS** ~> yelling

Name: Kylie

IN MY Puzzle...

Directions: Write and draw about the puzzle you created with friends.

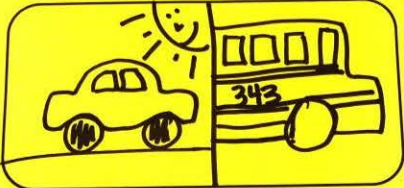
I see a pigeon
and a school bus.
We worked well as
a team.

E L A

ELL A

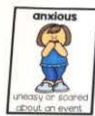
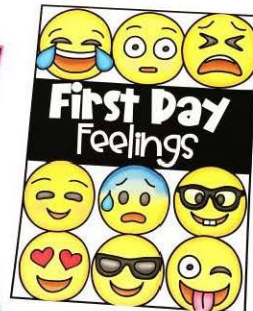
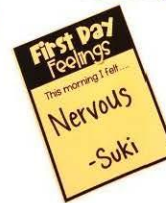
Name: Eliza

HOW I GET TO SCHOOL



In the morning: I ride in a car with dad.

In the afternoon: I ride the bus with Jake.



*nervous
*scared

I was anxious to leave my dad.



*different
*new

The unknown make me uncomfortable



*teacher
*pro

My mom says the experts say I need 10 hours of sleep.




*gentle
*delicate

My new toy is fragile so I'm careful.

Name: Smith


Directions: Here are some things that Pigeon is nervous about. Help him feel better by telling him how it works at your school.

Math



We play games and count to 20!

Reading



I like to read sitting by myself on the floor.