

educational TEACHING GUIDE

AUTHOR- JESSICA STREMER

ILLUSTRATOR- BONNIE PANG

PUBLISHER - SIMON & SCHUSTER

RESOURCES DESIGNED BY: The sunkry side

L16475 teaching guide



BOUT THE BOOK

When the seasons change and it's time for a flock of sparrows to move on, a map made of stars guides their way. But when they reach the city, light pollution masks the map and confuses the birds. One sparrow becomes separated from the flock. A girl rescues the lost sparrow and decides to take action so this doesn't happen again. She rallies a group of friends, and together they encourage people all over the city to help the sparrows by turning off their lights at night. But will the city be ready by the time the flock return?

PRE-READING ACTIVITIES

Before reading LIGHTS OUT consider the following activities to engage your readers.

- Take a picture walk of the story, flipping each page and pointing out the illustrations. Encourage students to predict what will happen in the story.
- Host a class-wide discussion about the title. Why did the author choose that title? What might we be reading about?
- Create a mind map to brainstorm what students already know about the word MIGRATION.

ABOUT THE AUTHOR

JESSICA STREMER

Jessica Stremer is an award-winning children's author who combines her love of science and writing to create books that inspire kids to explore and think critically about the world around them. Her books have received multiple starred reviews and have been designated as School Library Journal Gold Standard Selections, Cook Prize Silver Medal recipient, NYPL Best Book of the Year, and NSTA Outstanding Science Trade Book. Jessica obtained a B.S. in Biology from the University of Wisconsin Oshkosh. When not writing you can find her cheering from the sideline of her kids' soccer games and planning her next family adventure.



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EDUCATIONAL ACTIVITIES

Based on the real-life Lights Out movement, this inspirational picture book shows how even the smallest of actions, like flipping a switch, can make a big difference in helping migrating birds. The inquiry—driven activities in this guide apply to a variety of content areas and educational standards. They may be used for a range of learners and are aligned to the CCSS and NGSS.

SOCIAL-EMOTIONAL

be a star!

Target Grade Range: K — 5th Grade

In the back matter section of LIGHTS OUT, we learn how to support migratory birds and get involved with the Lights Out Movement. Take this a step further with this fun, interactive activity! Students will write and/or draw about how they can be a STAR in their community and support the Lights Out movement. This activity encourages speaking and listening skills and provides interesting talking points for students to share with each other.



WRITING

light pollution research

Target Grade Range: 1st — 5th Grade
Jessica Stremer teaches readers about
the negative effects of light pollution.
Encourage students to research and learn
more about light pollution. Using books,
devices, and/or the backmatter section of
the book, students will record facts about
light pollution and write an informational
paragraph about what they learned.

ENGLISH-LANGUAGE ARTS

3, 2, 1 comprehension

Target Grade Range: 1st - 5th Grade
Non-fiction stories offer readers an opportunity to learn new facts. Encourage students to think about what they learned while reading LIGHTS OUT. Using a pencil and the differentiated graphic organizer of their choice, ask students to write about 3 new things the learned, 2 new facts acquired, and 1 question they still have after reading. This activity provides a great conversation starting tool and is a wonderful way to reflect on new learning.

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EDUCATIONAL ACTIVITIES

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ENGLISH-LANGUAGE ARTS

problem + solution

Target Grade Range: K — 5th Grade In LIGHTS OUT, the girl experiences a clear problem. As with any story, every problem has a solution. Explore the girl's big problem and how she works to solve it. Students may use another character or idea other than the girl to consider a totally different problem in the story. Students can draw a picture to go along with their thoughts, using their favorite art supply. The graphic organizers have differentiated lined paper, appropriate for students in a range of grade levels.

STEAM

build a nest challenge

Target Grade Range: K-5th Grade In the story, readers learn more about birds and their natural habitats. Use this context to engage learners in a STEAM activity, where they must engineer and design a bird's nest with the given supplies. Students can work independently or in small groups to follow the steps of the engineering design process.

SCIENCE

migrate or hiberhate sort

Target Grade Range: K - 5th Grade Compare and contrast animals that migrate and hibernate in cold weather with this fun and interactive sort! Students will decide which animals migrate and which animals hibernate by cutting, sorting, and gluing animals into the correct column.



AUTHOR- JESSICA STREMER

ILLUSTRATOR- BONNIE PANG

EDUCATIONAL ACTIVITIES

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SOCIAL-STUDIES

being a good citizen

Target Grade Range: 1st - 5th Grade
Good citizenship shines in LIGHTS OUT.
Students will explore what it means to be a
good citizen, with this social-studies
activity. Encourage children to think and
write about how they can practice good
citizenship in their communities. Then, they
can color the illustration from the story.
The graphic organizers have differentiated
lined paper, appropriate for students in a
range of grade and ability levels.

ART

bird craft

Target Grade Range: K — 5^{th G}rade
What better way to celebrate this
amazing new story than with an art
project? Have students create a bird
craft, like the birds pictured in the
illustrations. Gather the needed supplies
(colored construction paper, scissors, and
glue sticks) and allow students to create
an adorable craft that captures the
message in this story.

AUTHOR- JESSICA STREMER

ILLUSTRATOR- BONNIE PANG

SOCIAL / EMOTIONAL ACTIVITY



BE A STAR!

Standards:

CCSS.ELA-LITERACY.SL.K.1-6

CCSS.ELA-LITERACY.SL.1.1-6

CCSS.ELA-LITERACY.SL.2.1-6

CCSS.ELA-LITERACY.SL.3.1-6

CCSS.ELA-LITERACY.SL.4.1-6

CCSS.ELA-LITERACY.SL.5.1-6

You will need:

- White or colored copy paper
- Pencils

Step-by-step to-do list:

- 1. Copy the BE A STAR GRAPHIC ORGANIZER on white copy paper.
- 2. First, brainstorm with students how they can positively contribute to the Lights Out Movement.
 - See the HOW TO HELP heading in the backmatter section of LIGHTS OUT for ideas.
- 3. Explain that students will write or draw a way that they can be a star and help migratory birds.
- 4. Students can use their favorite art supply to decorate the star or color what they drew.
- 5. When students finish writing and/or drawing, they will cut the star out with scissors.
- 6. Then, collect the stars and hang them in a special place in your classroom.
- 7. For younger students (K and younger) students can simply draw rather than write inside the outline of the star.



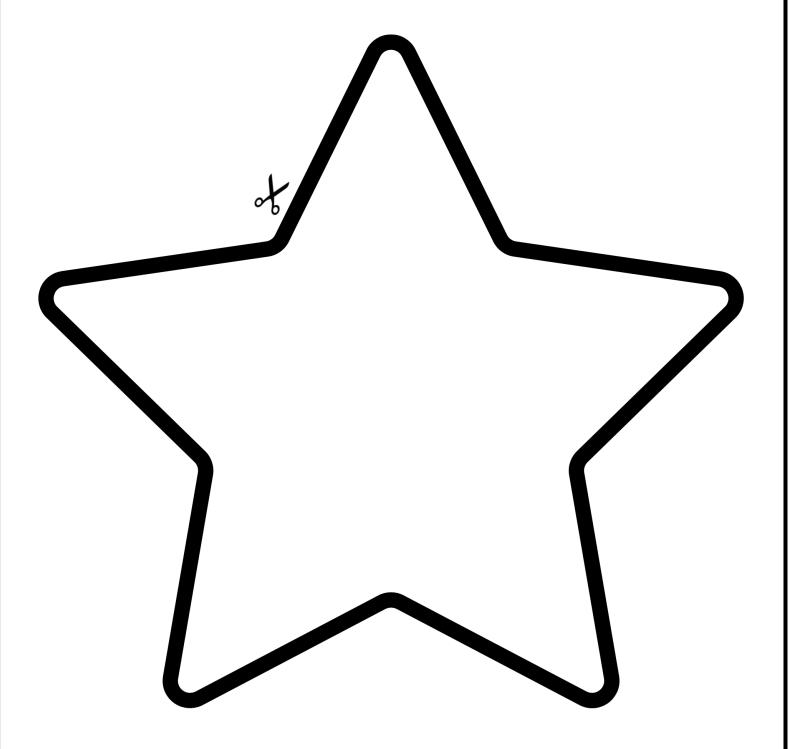
RESOURCES DESIGNED BY: the supply side

Name: ____

BE A STAR!







RESOURCES DESIGNED BY: the surray side

WRITING ACTIVITY

LIGHT POLLUTION RESEARCH

LIGHT POLLUTION RESEARCH

FACT I

FACT 3



LIGHT POLLUTION RESEAR

Standards:

CCSS.ELA-LITERACY.W.1.2 CCSS.ELA-LITERACY.W.2.2 CCSS.ELA-LITERACY.W.3.2 CCSS.ELA-LITERACY.W.4.2 CCSS.ELA-LITERACY.W.5.2

You will need:

- White copy paper
- Pencils
- Research tools (like Chromebooks, I-pads, or non-fiction books about light pollution)

Step-by-step to-do list:

- 1. Decide which LIGHT POLLUTION RESEARCH GRAPHIC ORGANIZER + WRITING PAPER works best for your students and copy on white paper.
- 2. Distribute the fact graphic organizers and writing paper to students.
- 3. Encourage students to research light pollution (having access to technology like Chromebooks or I-pads works best).
- 4. Students should record the facts they learn about light pollution (you can also direct them to the backmatter section of the book).
- 5. Finally, have students write an informational paragraph on the writing paper by copying the facts and adding an introduction and conclusion sentence.
- 6. For younger students (1st grade and younger) you may want to complete this as a shared research project, where students copy your research.



IGHT POLLUTI	ON RESEARC
TOPIC:	
FACT I	FACT 2
FACT 3	FACT 't
OURCE:	

FACT 2
FACT 4

Name:	RESOURCES DESIGNED BY: the supply sid
LIGHT POLL	UTION RESEARCH
TOPIC:	
FACTI	FACT 2
FACT 3	FACT +
SOURCE:	
AUTHOR- JESSICA STREMER	ILLUSTRATOR- BONNIE PANG PUBLISHER — SIMON & SCHUSTER

RESOURCES DESIGNED	BY: the supply side	
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Name: _____

LIGHT POLLUTION RESEARCH



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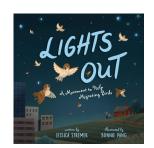
ILLUSTRATOR- BONNIE PANG

Name:	RESOURCES DESIGNED BY: the supply side
LIGHT POLLUTIO	N RESEARCH
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ILLUSTRATOR- BONNIE PANG

AUTHOR- JESSICA STREMER

ELA ACTIVITY



3, 2, 1 COMPREHENSION

Standards:

CCSS.ELA-LITERACY.RI.1.1 CCSS.ELA-LITERACY.RI.2.1 CCSS.ELA-LITERACY.RI.3.1 CCSS.ELA-LITERACY.RI.4.1 CCSS.ELA-LITERACY.RI.5.1

You will need:

- · White copy paper
- Pencils

Name: 3, 2, 1 COMPREHENSION Note about 3 strings (act learned at the bookly sade brown of the

Step by step to do list:

- 1. Decide which differentiated lined paper works best for your students.
- 2. Copy the 3, 2, 1 COMPREHENSION GRAPHIC ORGANIZERS on white copy paper.
- 3. Explain that students will reflect on and write about 3 new things they learned, 2 new facts they gained, and 1 question they still have after reading.
- 4. Allow independent work time and then an opportunity for students to share with classmates in partnerships or in a small group.
- 5. For younger students (1st grade and younger) you may want to complete this activity as a whole group or encourage students to draw rather than write.

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3, 2, I CO	MPREHENSION
	earned, 2 new facts, and 1 question you still fter reading LIGHTS OUT.
5	
THINGS I LEARNED	
NEW FACTS	
QUESTION	

AUTHOR- JESSICA STREMER

ILLUSTRATOR- BONNIE PANG

Name:	RESOURCES DESIGNED BY: the supply side
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Write about 3 things y	you learned, 2 new facts, and 1 question you still ve after reading LIGHTS OUT.
3	
THINGS I LEARNED	

NEW FACTS

QUESTION

AUTHOR- JESSICA STREMER

ILLUSTRATOR- BONNIE PANG

Name: _____

3, 2, I COMPREHENSION

Write about 3 things you learned, 2 new facts, and 1 question you still have after reading LIGHTS OUT.

THINGS I LEARNED

NEW FACIS

QUESTION

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ELA ACTIVITY



PROBLEM AND SOLUTION

Standards:

CCSS.ELA-LITERACY.RL.K.1 CCSS.ELA-LITERACY.RL.1.1 CCSS.ELA-LITERACY.RL.2.1 CCSS.ELA-LITERACY.RL.3.1 CCSS.ELA-LITERACY.RL.4.1 CCSS.ELA-LITERACY.RL.5.1

You will need:

- White copy paper
- Pencils
- Art Supplies (crayons or colored pencils)

PROBLEM & SOLUTION White about a problem and solution in the story. Then, draw a problem to go along with your serviceres. PROBLEM SOLUTION DRAW A PICTURE!

Step-by-step to-do list:

- 1. Decide which PROBLEM + SOLUTION GRAPHIC ORGANIZER works best for your students and copy on white paper.
- 2. Distribute the graphic organizers to students.
- Brainstorm with students a problem that was encountered by the girl in the story and how that problem was solved.
- 4. Students should write about a problem, a solution to the problem, and then draw a picture to go along with their thoughts.
- 5. Allow students an opportunity to share with other students in class.
- 6. For younger students (1st grade and younger) you may want to complete this activity as a whole group or use the graphic organizer with blank boxes for students to draw rather than write.

Name:	RESOURCES DESIGNED BY: the supply side
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	story. Then, draw a picture to go along with
· ·	story. Then, graw a picture to go diong with sentences.
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 ${\tt PUBLISHER-SIMON~\&~SCHUSTER}$

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Name:	RESOURCES DESIGNED BY: the supply side
PROBLEM &	
Write about a problem and solution in the story your senter	y. Then, draw a picture to go along with
PROBLEM	
SOLUTION	
DRAW A PICTURE!	
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AUTHOR- JESSICA STREMER ILLUSTRATOR- BON	NIE PANG PUBLISHER – SIMON & SCHUSTER

RESOURCES DESIGNED	BY:	he	suhhy	side
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Name: ____

PROBLEM & SOLUTION

Write about a problem and solution in the story. Then, draw a picture to go along with your sentences.

PROBLEM

SOLUTION

DRAW A PICTURE!





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ILLUSTRATOR- BONNIE PANG

SCIENCE ACTIVITY



MIGRATE OR HIBERNATE?

Standards:

CCSS.ELA-LITERACY.SL.K.1-6

CCSS.ELA-LITERACY.SL.1.1-6

CCSS.ELA-LITERACY.SL.2.1-6

CCSS.ELA-LITERACY.SL.3.1-6

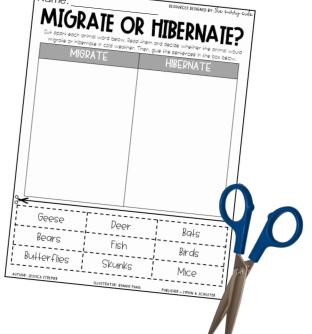
CCSS.ELA-LITERACY.SL.4.1-6

CCSS.ELA-LITERACY.SL.5.1-6

You will need:

- · White or colored copy paper
- Pencils
- Scissors
- · Glue sticks

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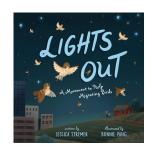
Step-by-step to-do list:

- 1. Copy the HMIGRATE OR HIBERNATE SORT on white copy paper.
- 2. First, flip to the backmatter section of LIGHTS OUT and read the information about bird migration.
- 3. Explain that depending on the circumstances, some animals migrate like the birds in the story while others hibernate.
 - Hibernation is when some animals have long periods of deep sleep during cold weather.
- 4. Students will use scissors to cut apart the sentences on the bottom of the sort.
- 5. They will decide whether the animal is one that would migrate or hibernate and glue each animal on the correct side of the sort.
 - Migrate Fish, butterflies, birds, geese
 - Hibernate Bears, deer, bats, mice, skunks
- 6. For younger students (1st grade and younger) you may want to complete this activity as a whole group together.

RESOURCES DESIGNED BY: The SHAWAY STARS

Name:		RESOU	RCES DESIGNED BY: the supply side
Cut apart each ar	nimal word below. Re	ad them and decid	ERNATE? de whether the animal would
	PATE		BERNATE
Geese		Deer	Bats
Bears		 Fish	Birds
Bullerflie	es S	Kunks	Mice
AUTHOR- JESSICA STREMER		ATOR- BONNIE PANG	PUBLISHER — SIMON & SCHUSTER

STEAM ACTIVITY



BUILD A BIRD'S NEST

Standards:

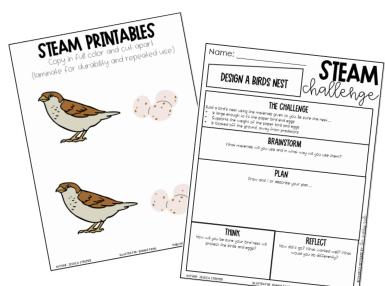
- 3-5-FTS1-1.
- 3-5-ETS1-2.
- 3-5-ETS1-3.

You will need:

- · White copy paper
- Pencils
- Crayons / colored pencils / markers
- Access to colored printer
- For each group: Pipe cleaners, popsicle sticks, playdough, tape, construction paper & colored copies of the bird and eggs

Step-by-step to-do list:

- 1. Decide student groups prior to this activity (groups of no more than 4 students generally work best).
- 2. Copy the DESIGN A BIRD'S NEST GRAPHIC ORGANIZER on white copy paper.
- 3. Print the bird and eggs in color and gather the rest of the supplies (listed above).
- 4. Explain that the goal today is to design and build a birds nest you might find a bird living in out in the wild.
- 5. Distribute the STEAM page to students and allow them to work through the questions in their small group.
- 6. Give each group the materials they need and allow time to create.
- 7. Reflect on the STEAM experiment and allow students an opportunity to share with other groups.
- 8. For younger students (1st grade and younger) you may want to complete this activity as a whole group together.



Name:

DESIGN A BIRDS NEST



THE CHALLENGE

Build a bird's nest using the materials given to you. Be sure the nest...

- · Is large enough to fit the paper bird end eggs
- · Supports the weight of the paper bird and eggs
- Is located off the ground, away from predators

BRAINSTORM

What materials will you use and in what way will you use them?

PLAN

Draw and / or describe your plan...

THINK

How will you be sure your bird nest will protect the birds and eggs?

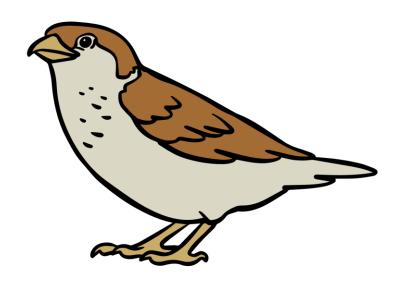
REFLECT

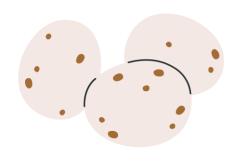
How did it go? What worked well? What would you do differently?

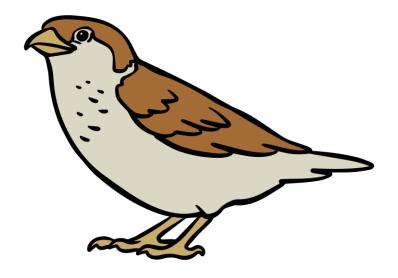
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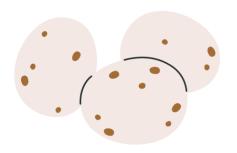
STEAM PRINTABLES

Copy in full color and cut apart (laminate for durability and repeated use)









RESOURCES DESIGNED BY: the summy side

SOCIAL STUDIES ACTIVITY

BEING A GOOD CITIZEN

Standards:

CCSS.ELA-LITERACY.W.1.8 CCSS.ELA-LITERACY.W.2.8 CCSS.ELA-LITERACY.W.3.8 CCSS.ELA-LITERACY.W.4.8

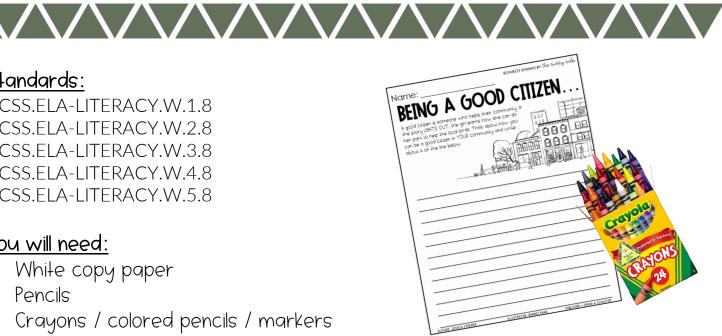
CCSS.ELA-LITERACY.W.5.8

You will need:

- White copy paper
- Pencils
- Crayons / colored pencils / markers

Step-by-step to do list:

- Decide which differentiated lined paper works best for your students.
- Copy the BEING A GOOD CITIZEN WRITING PAPER on white copy paper.
- Distribute organizers to students.
- Discuss what it means to be a good citizen and record thoughts from the discussion on the board.
- Explain that students will write or draw how they can contribute to their community and be a good citizen (this can be related to The Lights Out Movement but doesn't have to be).
- Allow independent work time.
- Then, students can share and compare their thinking in partnerships or in small groups.
- For younger students (1st grade and younger) you may want to complete this activity as a whole group together or have students simply draw instead of write.



Name:	RES	ources designed by: the supply	side
BEING A A good citizen is someone the story LIGHTS OUT, the her part to help the local	GOOD who helps their community e girl learns how she can do birds. Think about how you OUR community and write	y. In	
about it on the line below.	V		
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BEING A	GOOD C	ITIZEN
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Name:	RESOU	IRCES DESIGNED BY: the supply side
BEING A	GOOD (ITIZEN
A good citizen is someone we the story LIGHTS OUT, the good her part to help the local birding be a good citizen in YOU about it on the line below.	girl learns how she can do rds. Think about how you	
	·	
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ARI ACIIVITY



BIRD CRAFT

Standards:

CCSS.ELA-LITERACY.SL.K.1-6

CCSS.ELA-LITERACY.SL.1.1-6

CCSS.ELA-LITERACY.SL.2.1-6

CCSS.ELA-LITERACY.SL.3.1-6

CCSS.ELA-LITERACY.SL.4.1-6

CCSS.ELA-LITERACY.SL.5.1-6

You will need:

- Colored construction paper or cardstock
- Pencils
- Scissors
- Glue sticks

Step-by-step to-do list:

- 1. Copy the BIRD CRAFT TEMPLATES on colored construction paper or white copy paper for students to color.
- 2. Students should cut the templates apart and glue them according to the final craft.

- 3. Distribute write paper half pages and encourage students to write about what the girl from the story learned.
- 4. Then, they should adhere all the craft pieces to a colored piece of scrapbook paper or cardstock.
- 5. Hang the completed bird project in a special place for all to see.

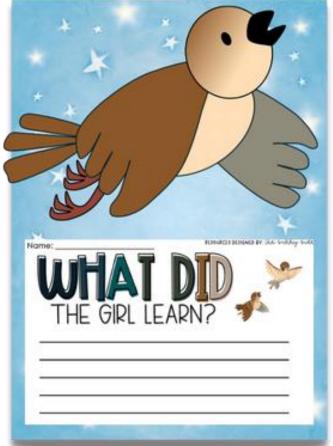


ART ACTIVITY



BIRD CRAFT







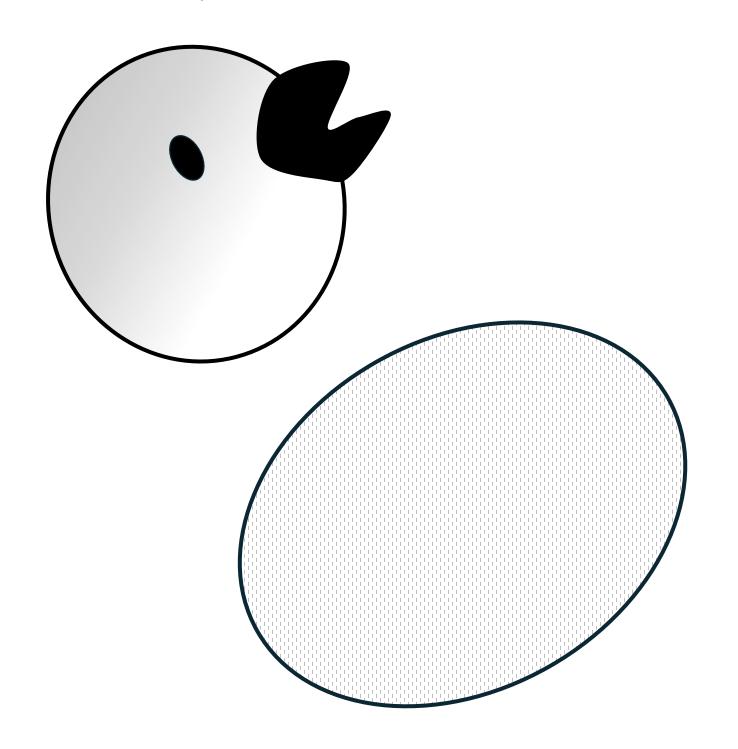
Copy bird templates on coordinated colored construction paper. Use scissors and glue to cut and paste the templates into place.

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BIRD BODY TEMPLATES

Copy on cream construction paper



RESOURCES DESIGNED BY: the surrry side

OUTER WING TEMPLATES

Copy on brown construction paper

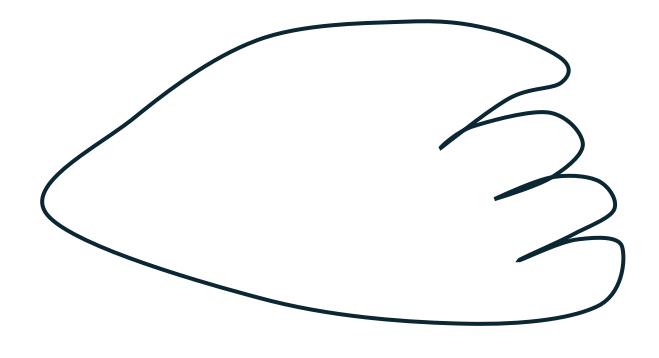


RESOURCES DESIGNED BY: The summy side

INNER WING TEMPLATE

Copy on dark brown or gray construction paper



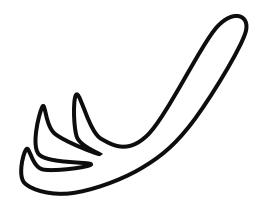


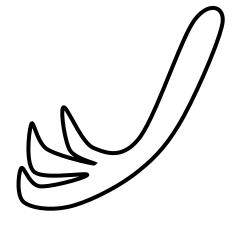
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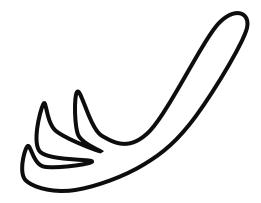
BIRD FEET TEMPLATES

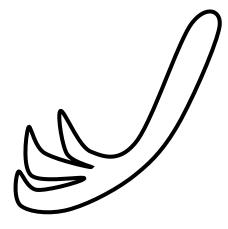
Copy on red or orange construction paper

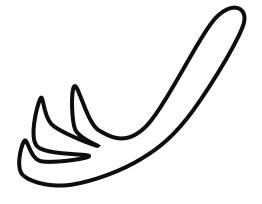












RESOURCES DESIGNED BY: The SUMMY Side

RESOURCES DESIGNED BY: the supply side

Name:

PUBLISHER - SIMON & SCHUSTER ILLUSTRATOR- BONNIE PANG



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		LEARN?

Name: _____

THE GIRL LEARN?

Name: ______ RESOURCES DESIGNED BY: the supply side

WHA	
THE GIRL I	

Name: _____

ILLUSTRATOR- BONNIE PANG

AUTHOR- JESSICA STREMER

THE GIRL LEARN?

CREDITS PAGE

The author - Jessica Stremer

Jessica Stremer is an award-winning children's author who combines her love of science and writing to create books that inspire kids to explore and think critically about the world around them. Her books have received multiple starred reviews and have been designated as School Library Journal Gold Standard Selections, Cook Prize Silver Medal recipient, NYPL Best Book of the Year, and NSTA Outstanding Science Trade Book. Jessica obtained a B.S. in Biology from the University of Wisconsin Oshkosh. When not writing you can find her cheering from the sideline of her kids' soccer games and planning her next family adventure.



CONNECT WITH JESSICA



The illustrator — Bonnie Pang

Bonnie Pang is an illustrator and comics artist from Hong Kong. She studied geography at the Chinese University of Hong Kong and obtained a master's degree in fine arts from the Academy of Art University in San Francisco. She is the creator of the webcomics Poar Street Journal and IT Guy & Art Girl. When not drawing, Bonnie enjoys reading, gaming, and spending time with her cat.



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