



Meet STEM Picture Book Author and Founder of Let's Engineer! Sheryl Haft

Sept 28
4 pm PT / 7pm ET



MAZIE MCGEAR
loves to
ENGINEER!

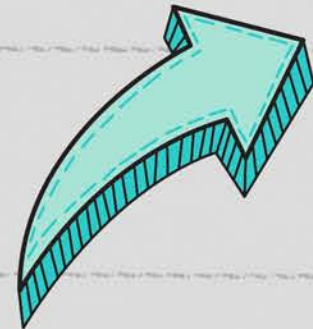
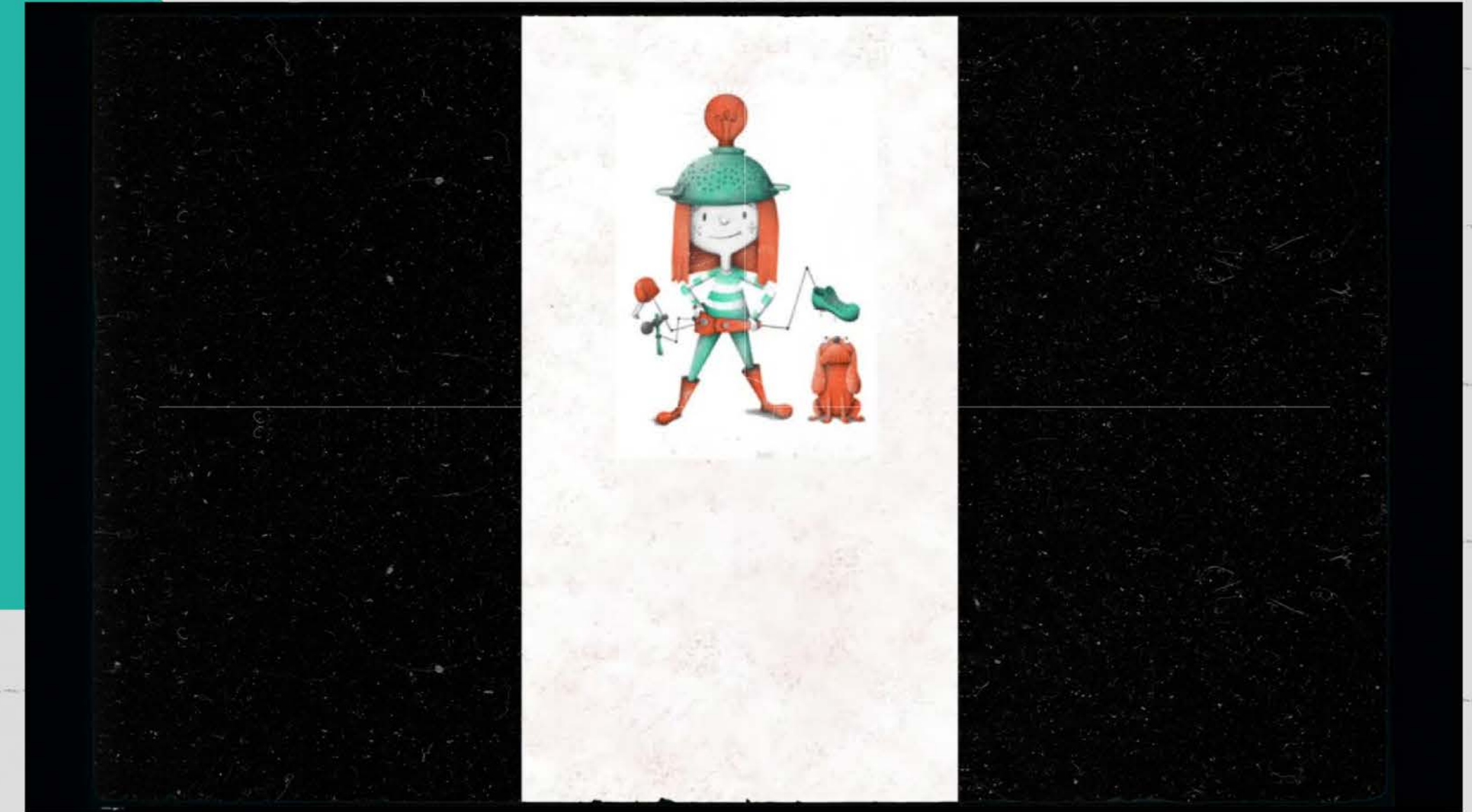
A picture book for budding engineers

ON SALE
September
12th





 SHERYL HAFT



Take a minute to hear from Mazie McGear and Author Sheryl Haft, STEAM Educator for 10+ years

SHERYL HAFT FOUNDER & EDUCATOR: LET'S ENGINEER DESIGN & INVENTION BUILDING WORKSHOPS





Mazie McGear - Kid-friendly ambassador for imagination and problem solving through engineering

MAZIE'S AMAZING MACHINES

My name is Mazie McGear. What I love to do is engineer! I'm the small one in my family, but I always wear a big belt full of tools. My favorite is the crank drill.



Engineers like to make up inventions to fix problems. Like how I have to feed my dog, Doodle, so early every morning.

That's a PROBLEM.



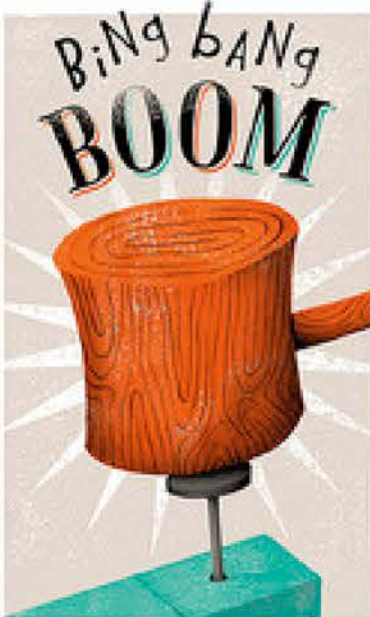
First, I turn on my imagination . . .



Then I draw . . .



Then . . . I build!



THE FOOD-O-MATIC



Now Doodle can get breakfast all by himself. Doodle loves engineering!

I find more problems around my house. It's hard for Mom to carry a stack of heavy boxes.



Engineering to the rescue!



WHEELS and RAMPS help move things.



I show Mom.

I MAKE A

ROLY-
RAMP



Mom's happy, but
when I bump into
my big brother, Jake,
he is NOT.

Ahhh!
Engineering is an
engi-nuisance!



THE

WAKER-UPPER
ROCKET MACHINE!

1

STOMP
WHOMP



2

CLING
CLANG

Engineering is...
engi-noying!

GRRR! Go away!





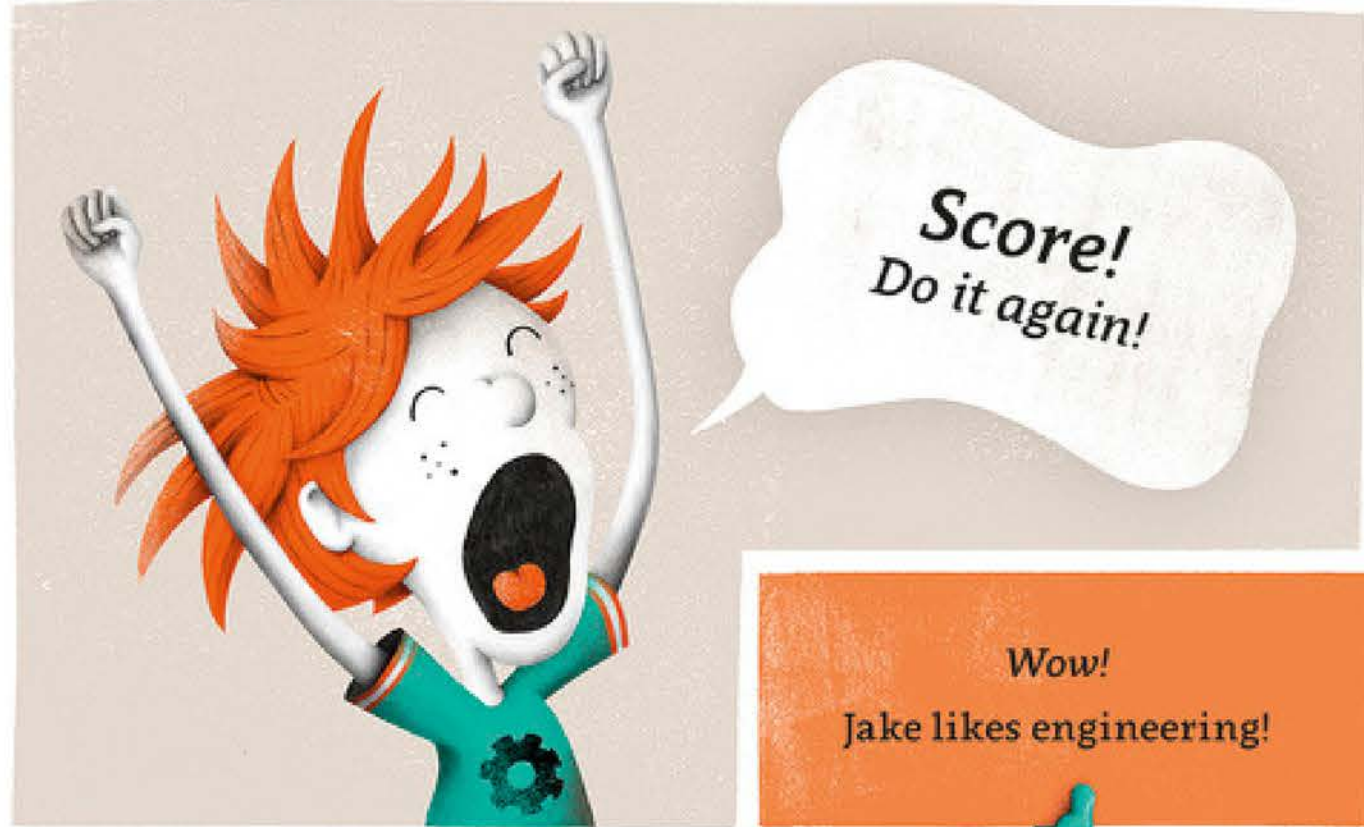
1

Jump
Pump



2

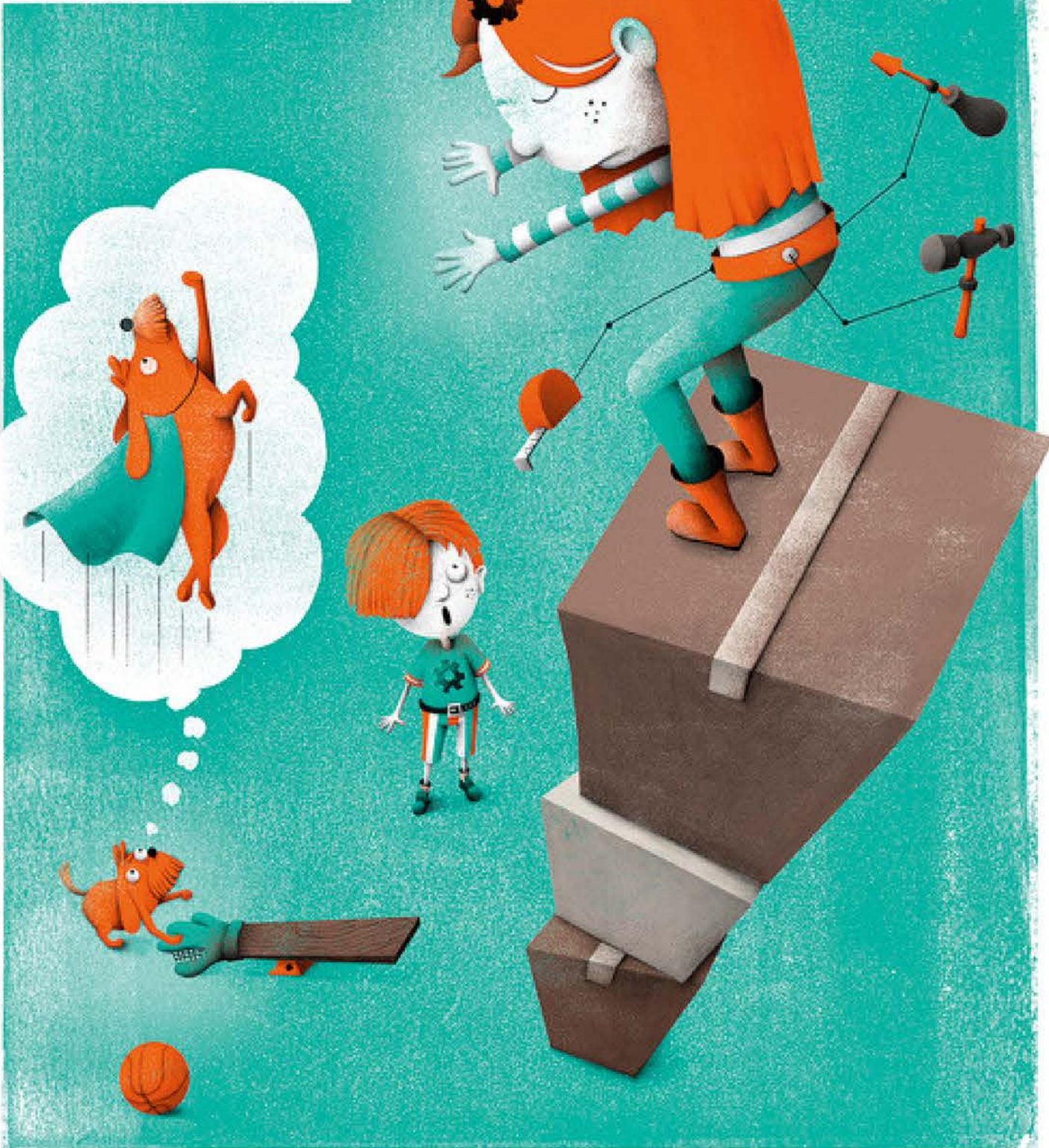
Whoosh
swoosh



Score!
Do it again!

Wow!
Jake likes engineering!

Now I climb up
extra high.





1
Jump
pump

2
Whoosh

3
swoosh

YIP!

Oh no!
Doodle's flying!

Too high!

Right onto
the roof!

HOORAY, I HAVE A PROBLEM!

How Engineering Empowers Kids to Meet Problems with Positivity



First, I turn on my
imagination . . .

THiNk



BLiNk



Then I draw . . .



RiBBLe

ScRiBBlE



Then . . .
I build!



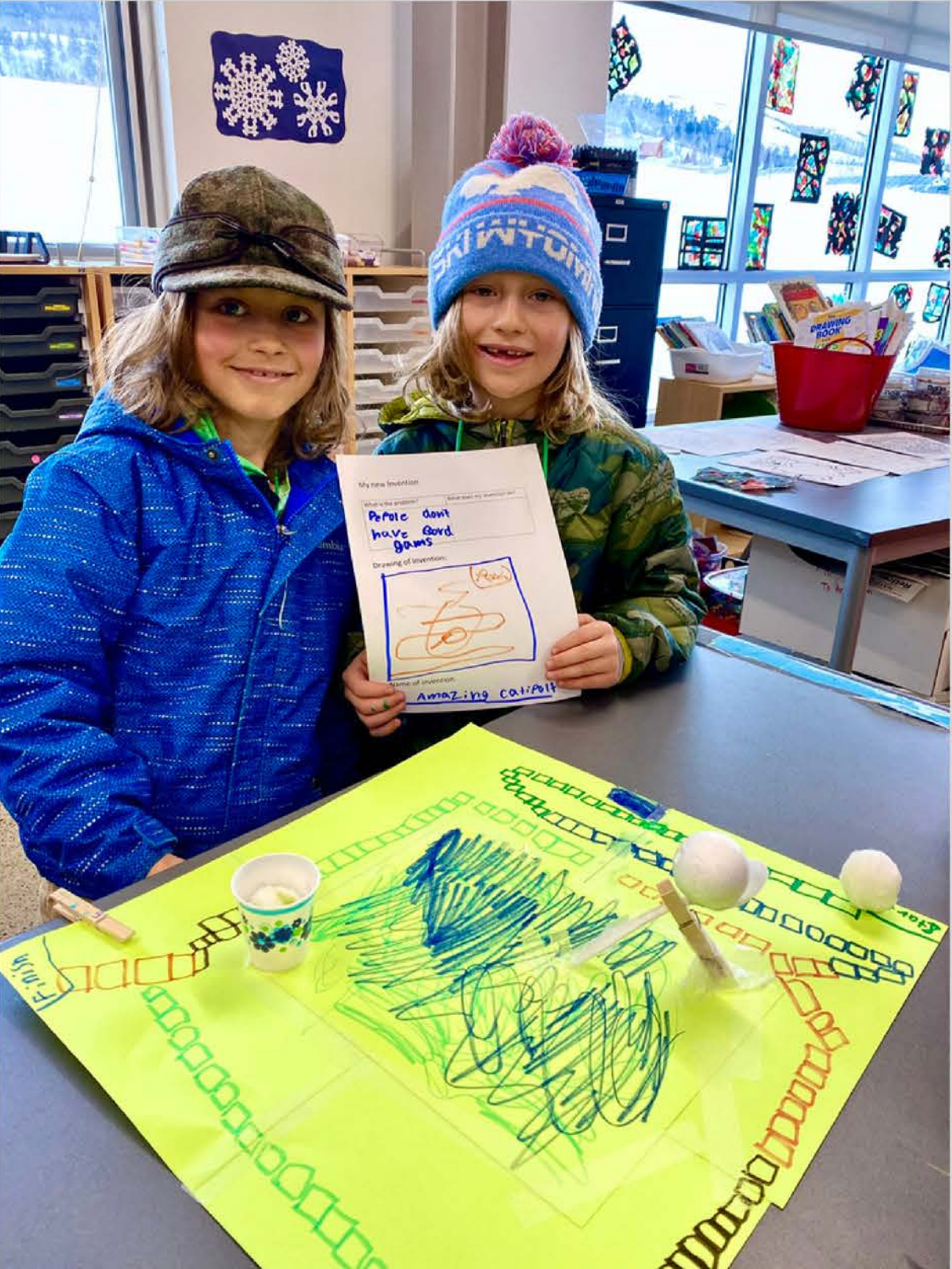
BiNg bANg
BOOM





“Engineering is an action-oriented and practical approach to problem solving that can apply to any subject. By empowering kids with hands-on learning it’s exciting to imagine what other problems in their lives – and in the world– they will be emboldened to solve.” - Sheryl Haft

Renowned Psychologist and Author, Carol Dweck affirms: “When we give students the freedom to tinker and try new things, they are more likely to develop a growth mindset and become resilient problem-solvers.”



SHERYL HAFT - AUTHOR of MAZIE'S AMAZING MACHINES: **“The book I always wished I had in the classroom!”**

FOR GRADES K-3:

- **BOOK READING**
- **STEAM ACTIVITY**
- **GROUP SHARE**

“Sheryl's author readings are interactive, musical and filled with surprises.”

“It was truly one of the most special programs we have had – the kids were so happy and engaged.”



FREE downloadable STEAM & SEL lessons that align with Common Core and NGSS standards created by Sheryl and engineering curriculum experts.

SEL & ENGINEERING LESSON

Make a Pulley-Powered Light-Bulb Hat


[LINK TO MAZIE LESSON PLANS](#)

K-2 Created by Sheryl Haft & Jennie Lummlis

K-2 SEL & Engineering Prep time: ~15 mins Lesson: ~40-60 mins

Pulley-Powered Light Bulb Hat

SEL & Engineering Task



In this lesson, students reflect on how they feel when people respond positively to their ideas. They learn different phrases to celebrate their peers' ideas and have a chance to practice being supportive. Students confront a design challenge: how do I make this lightbulb raise up without touching the lightbulb with my hands?

Materials:

1. Anchor chart paper
2. Copy paper for printable
3. Coloring materials
4. Card stock paper
5. Paperclips
6. Stiff paper straws (or bendy straws)
7. Thin string or ribbon
8. Tape
9. Scissors
10. Stapler

Prep:

1. Print 1 printable sheet per student
2. Set up materials available for each student/table group
3. Make your own light bulb imagination hat in advance

Step-by-step: SEL

1. Ask students to imagine they have a great idea. How would they feel? Today they will read a book about a child with a lot of ideas!
2. Read Mazie's Amazing Machine aloud. Stop to reflect on moments her family responds to her ideas
 - (p. 9 (Doodle), p. 12 and 13 (Mom and Jake), p. 15 (Dad), p. 24 (Jake)
3. Reflect with students about times they have used their imagination to solve a problem. Did anyone say anything to them?
4. Brainstorm on anchor chart: How can we show people we appreciate their ideas?
 - "That's a great idea!" "That's a cool way to think about it." "The thumbs up sign, a big smile"
5. Show students a model lightbulb. Explain that, like Mazie, they will make their own lightbulb to turn their imaginations on.
6. Students work independently coloring lightbulbs and cutting them out.
7. Meet back on carpet, everyone holding their lightbulb



ADDITIONAL MATERIALS FOR STUDENT ENGAGEMENT

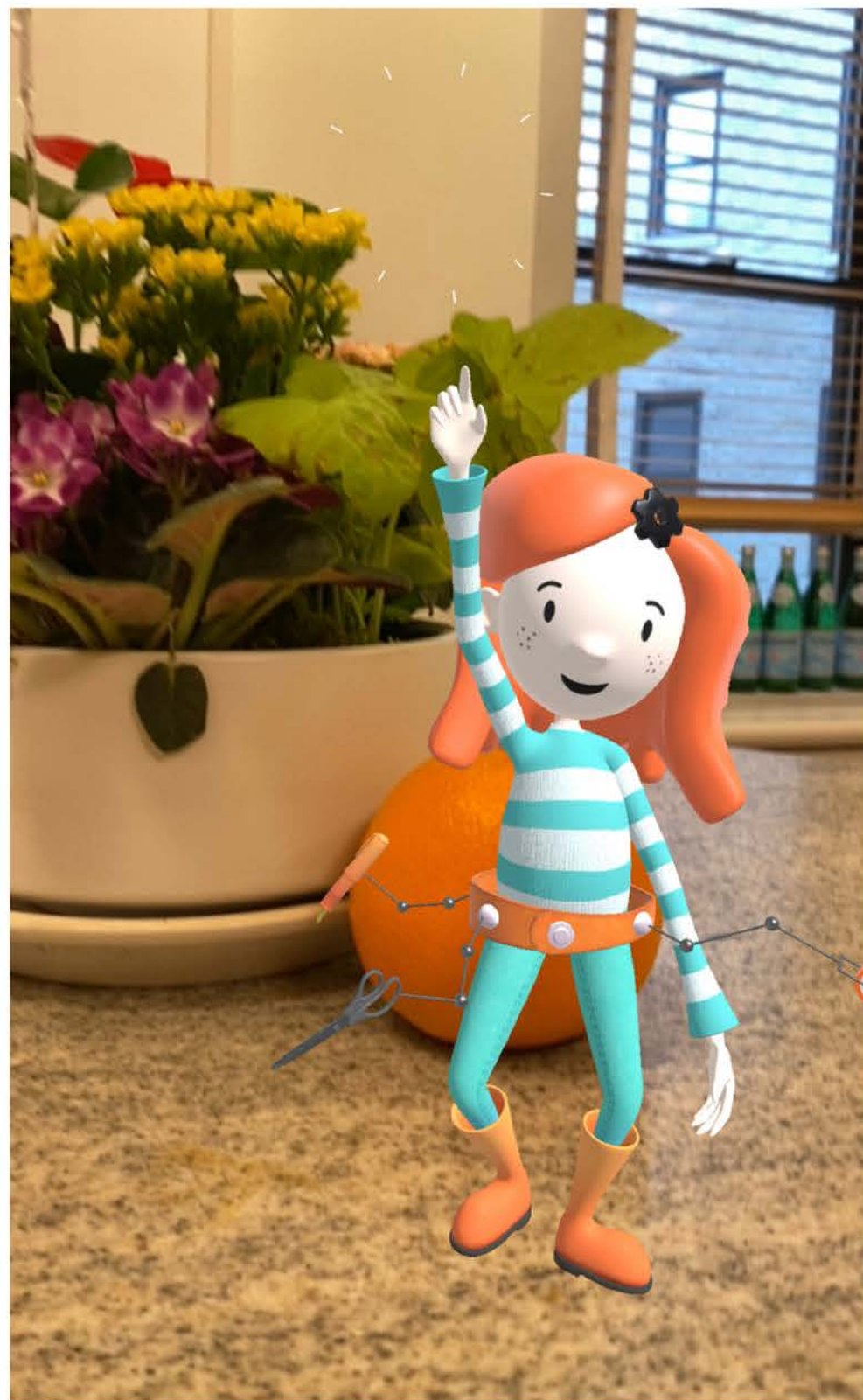


**I'M AN ENGINEER - original song by
Rebecca Schoffer - inspired by
MAZIE'S AMAZING MACHINES**

Downloadable
I'M AN ENGINEER SONG

MAZIE IN AUGMENTED REALITY 3-D!





MAZIE'S AMAZING MACHINES IN ACTION! TEACHERS AND PARENTS SHARING and INSPIRING STEAM EDUCATION



BE PART OF THE MAZIE'S AMAZING MACHINES MOVEMENT!

SHARE book and activity photos to Inspire others.

Share and tag me on:

Instagram & Facebook [@sherylhaft](#)

Tik Tok: [@sherylhaftchildrensbooks](#)

Find more free activities:



sherylhaft.com





THANK YOU
for joining me in celebrating STEAM &
MAZIE'S AMAZING MACHINES!

