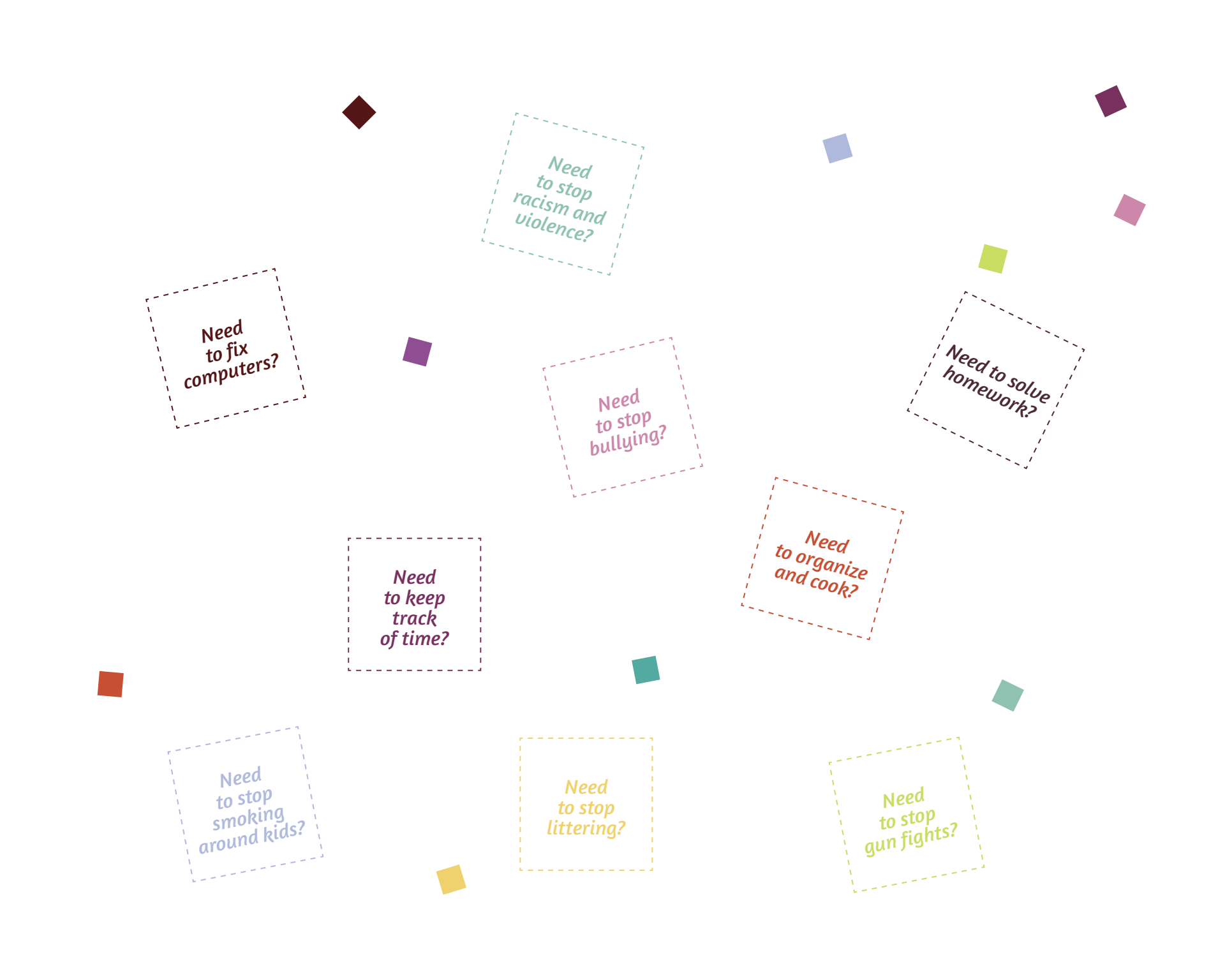
# to the Rescue

By Class 4/5-216
at P.S. 125 The Ralph Bunche School

Behind the Book / New York


Need to stop racism and violence?
Need to fix computers?
Need to stop bullying?
Need to solve homework?
Need to keep track of time?
Need to organize and cook?
Need to stop smoking around kids?
Need to stop littering?
Need to stop gun fights?

# Helper Bots to the Rescue

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**Behind the Book's mission is to develop engaged readers and writers in underserved NYC public schools by designing and delivering programs that are multi-disciplinary, culturally responsive, and promote deeper connections to books and their authors.**

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*In the interest of honoring student voice,*
*Behind the Book presents students' work as received from the teacher.*

Behind the Book

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**Teacher:** Kendra Britton
**Principal:** Yael Leopold
**Program Liaison:** Emmanuel Batista
**Curriculum Developer:** Keturah Abdullah
**Program Facilitator:** Lacresha Berry
**Teaching Artist:** Candice Humphries
**Book Design Coordinator:** Adriana Moreno
**Book Designer:** Rosie Gaynor
**Printing:** PDC Graphics, coordinated by Melissa Tessein
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This book is dedicated to

all the young innovators and changemakers.

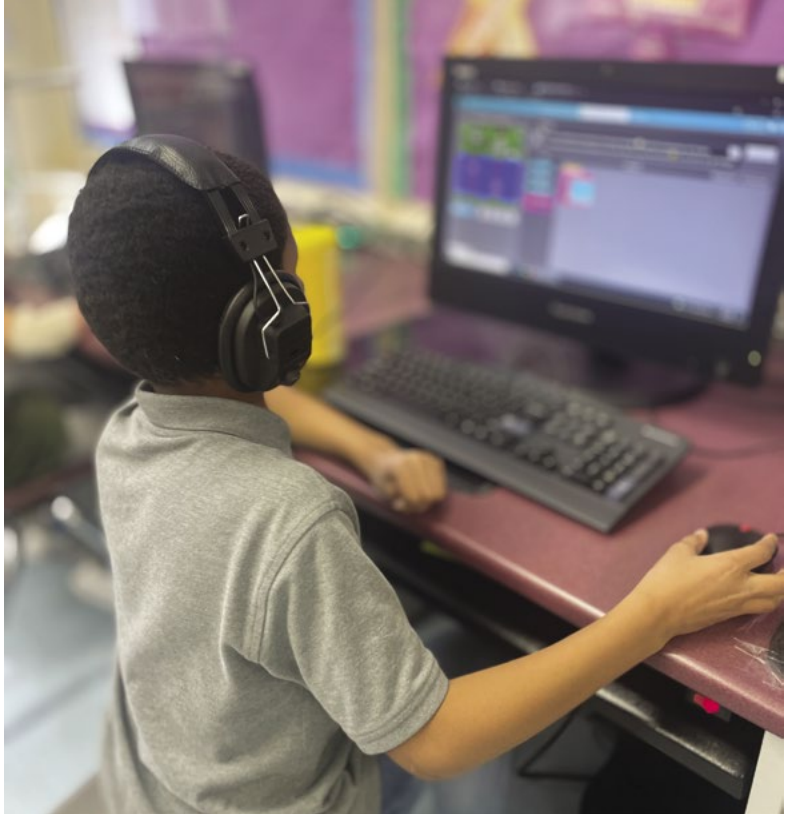
You can achieve anything you put your mind to.

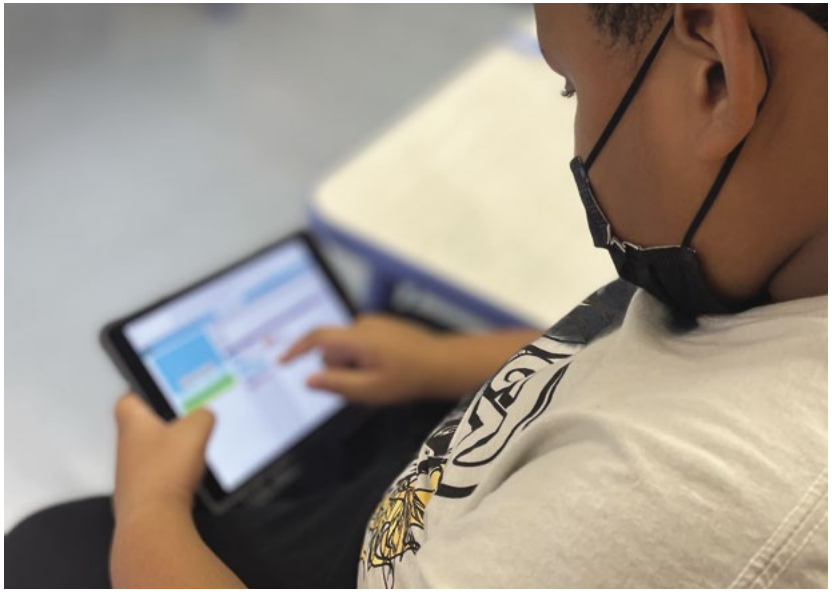
# About the Program

**How can we learn to design robots** to help with our everyday problems? The students in Ms. Britton's 4/5 class explored the amazing world of robotics beginning with the book *Rox's Secret Code* by Nathan Archambault and Mara Lecocq.

***Rox's Secret Code*** by Nathan Archambault and Mara Lecocq

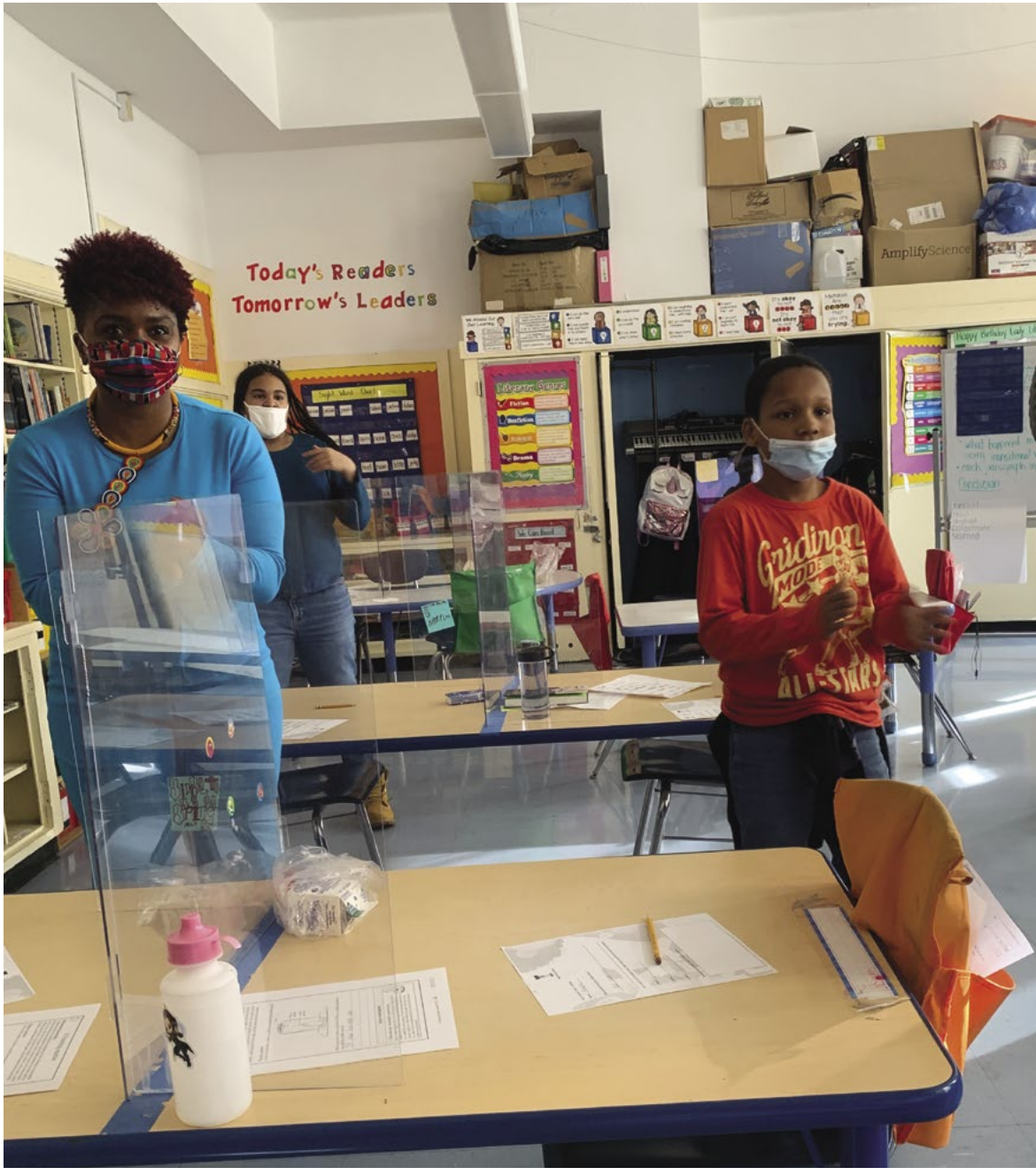
Like many of the students, Rox wanted to invent a robot that would clean her room. But her robot, Chorebot, went way overboard and tried to organize the entire city.

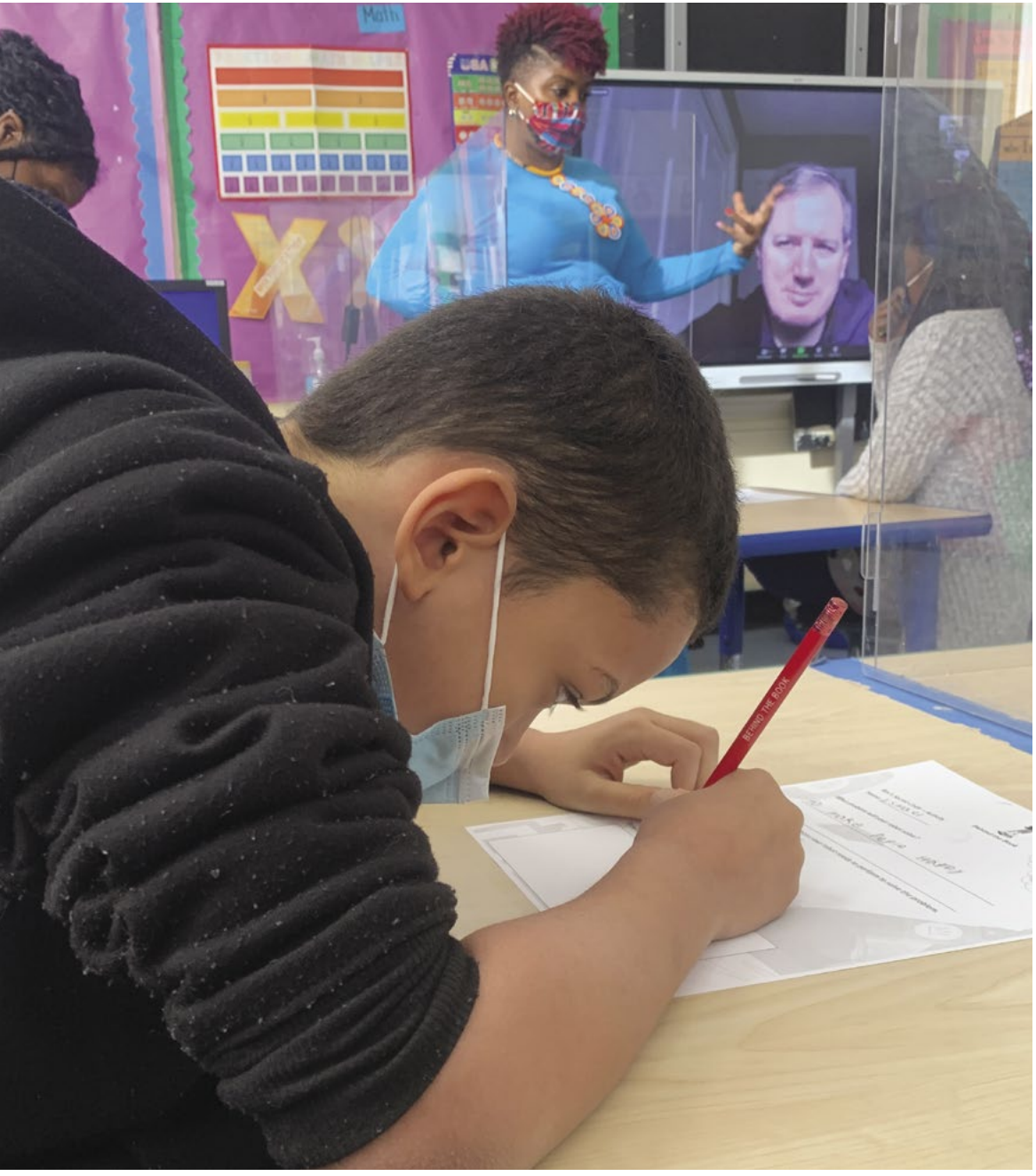




The class learned about coding and programming using a set of very specific instructions to get a robot to perform an activity. Together they 'programmed' Ms. Berry to make a peanut butter and jelly sandwich leading to many questions about coding, science, math, and robots.

When Nathan visited the class virtually, they asked him their questions and participated in an exercise using coding symbols to create dances. They got to perform their dances using their codes.

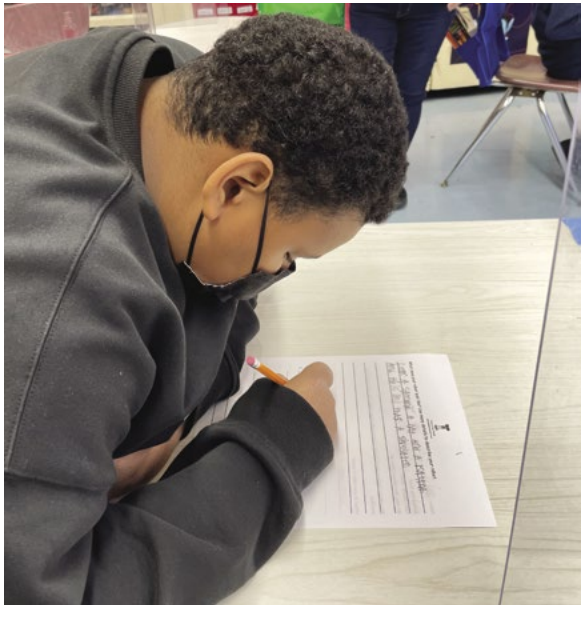





Between Nathan's visits, the class participated in a workshop designing their own robots to make them solve problems by indicating necessary functions and codes.

Nathan gave them feedback on their draft worksheets to discuss their ideas and improve their codes. One student designed his robot to "give out hugs to stop gun violence."

SECRET
CODE

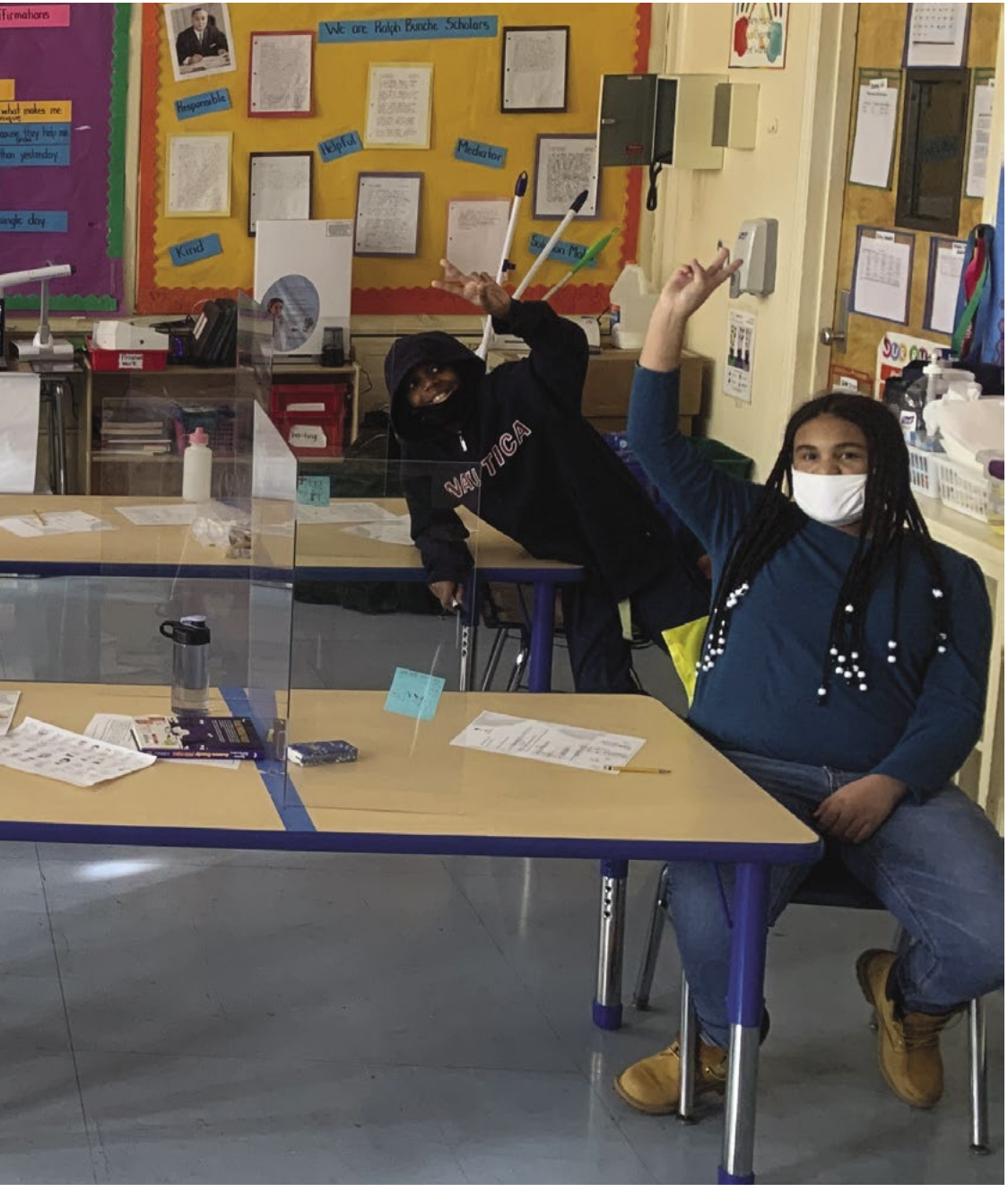


Today's Readers
Tomorrow's Leaders

To help visualize their robot designs, Behind the Book teaching artist Candice Humphries demonstrated collage-making with a slideshow.

They created mixed-media collages about their robots and shared them with the class.

Math
I am loved
I am safe
I am brilliant!
Gridiron
MODE




Learning about robots and how to design them was a treat for the students. They could imagine a time when so many boring chores or dangerous jobs could be done by these machines. They saw clearly how studying science and math will prepare them for the future when they could be the ones creating these fantastic machines.

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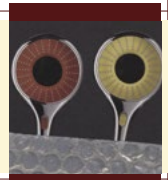

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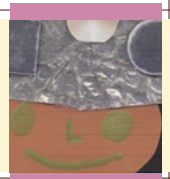

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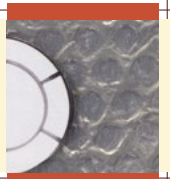

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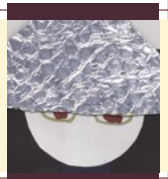


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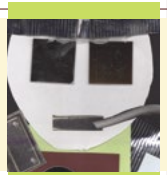
**Osniel 1105**
by
Osniel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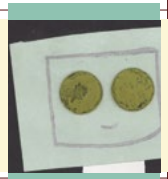


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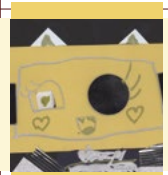


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**Fox Bot**
by
Robyn

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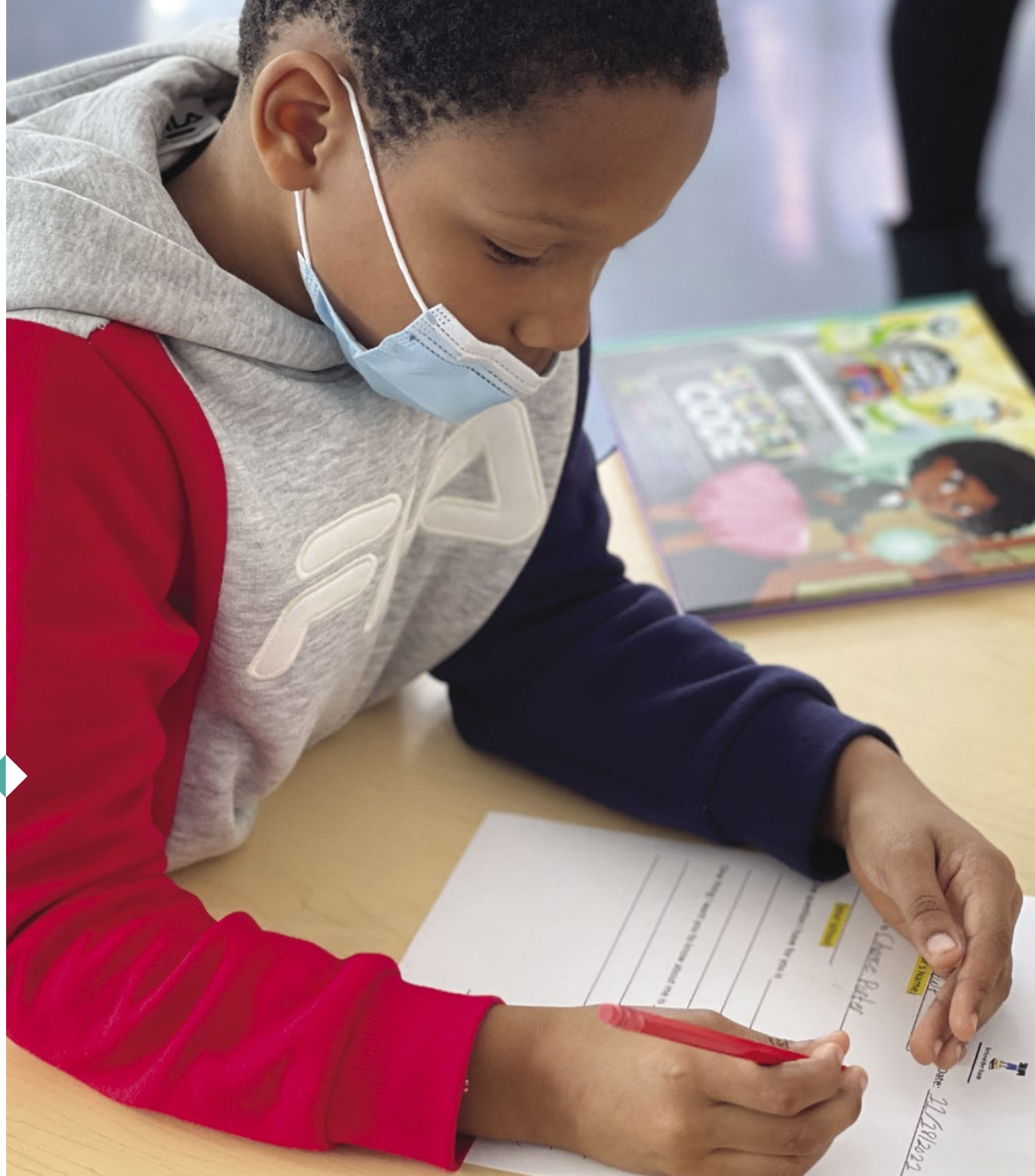
# Robot Specs



The students in Ms. Britton's 4/5 class designed the following robots to help with our everyday problems.

Hello, my name is

# Love Bot

Name Ismael Title My Robot

My Robot's name is Love Bot. The problem that my Robot solves is fixing computers. He organizes computers to get fixed. My Robot has a square body. It has two big eyes. One is red and one is yellow. My robot has a big heart in the middle of its body. My robot wears a watch on his wrist. ~~Also~~ it has two square buttons on his chest that have stars on it.

My robot has three functions. My robot can fix metals and wires with his tools. He can also fix other broken things. His third function is helping kids with homework.

BY Ismael

Hello, my name is

# Zoey

Name Cassidy Title My Robot

My robot's name is zoey. The problem that my robot solves is stop bullying and stop saying mean wold. my robot stop people from bullying and saying mean wold. Zoey has a clook and a hat and hand and face and have long hand and it have short feet and have a lot of hair and it have and it short and it book in zoey hand and it have bout and have 8 feet. My three functions is have dancing Leg and have long head and have long hair.

BY Cassidy

Hello, my name is

# Kayla

Name Makayla Title My Robot

My robot's name is Kayla because it's a short name out of my name but just taking out the m and the a. The problem that My Robot selves is no smoking around kids and no smoking because it can mess up your lung's and if you smoke around kids it's going to go in there face and they going to breath it in. My Robot has a selver spick hat to smack the sigeret out our people hands with her hat. She has red veals so that way she can go faster to ceach up to people. she has a box on the sinter of her stomic so she can speach to people, she got long arms she got a cloce on her chestet because she can tell time when she got to go. And she got a mangfine gloss to see closer because she's to hight up. My robot's three functions is that she can smack thing out of people hands. And she can pick her lag up and stamp on the segret's so that's easy for her to bind down and pick it up and trow it away. And she can turn arond to her trash bag that's behind her and she can trow it away.

BY Makayla

Hello, my name is

# Groot

Name Sidney Title MY Robot

MY robots name is Groot. The problem my robot is solving is sorting and orginizeing my pipcleaner. MY robot has interchangeable eyes and mouth. my robot has a pizza maker and a microwave in it's stomach because when I'm hungry Groot makes me food. My robot has four speeds regular, medium, fast and extream. Groot will orgenize my pipcleaner when I get some, make pizza when I ask and respond when I call him Groot.

BY **Sidney**

Hello, my name is

# Osniel 1105

Name Osniel Title My Robot's

My robot name is osniel 105. The problem my robot is solving my homework and find shortot. He does my homework for me. My robot look a samurai a hat and a KATANA and He has a sweater. And the swelater. is silver. My robot has three functions. He swinhing his Katana and He run and jamps and H shapeshifts And He can changecolor.

BY Osniel

Hello, my name is

# The Helper

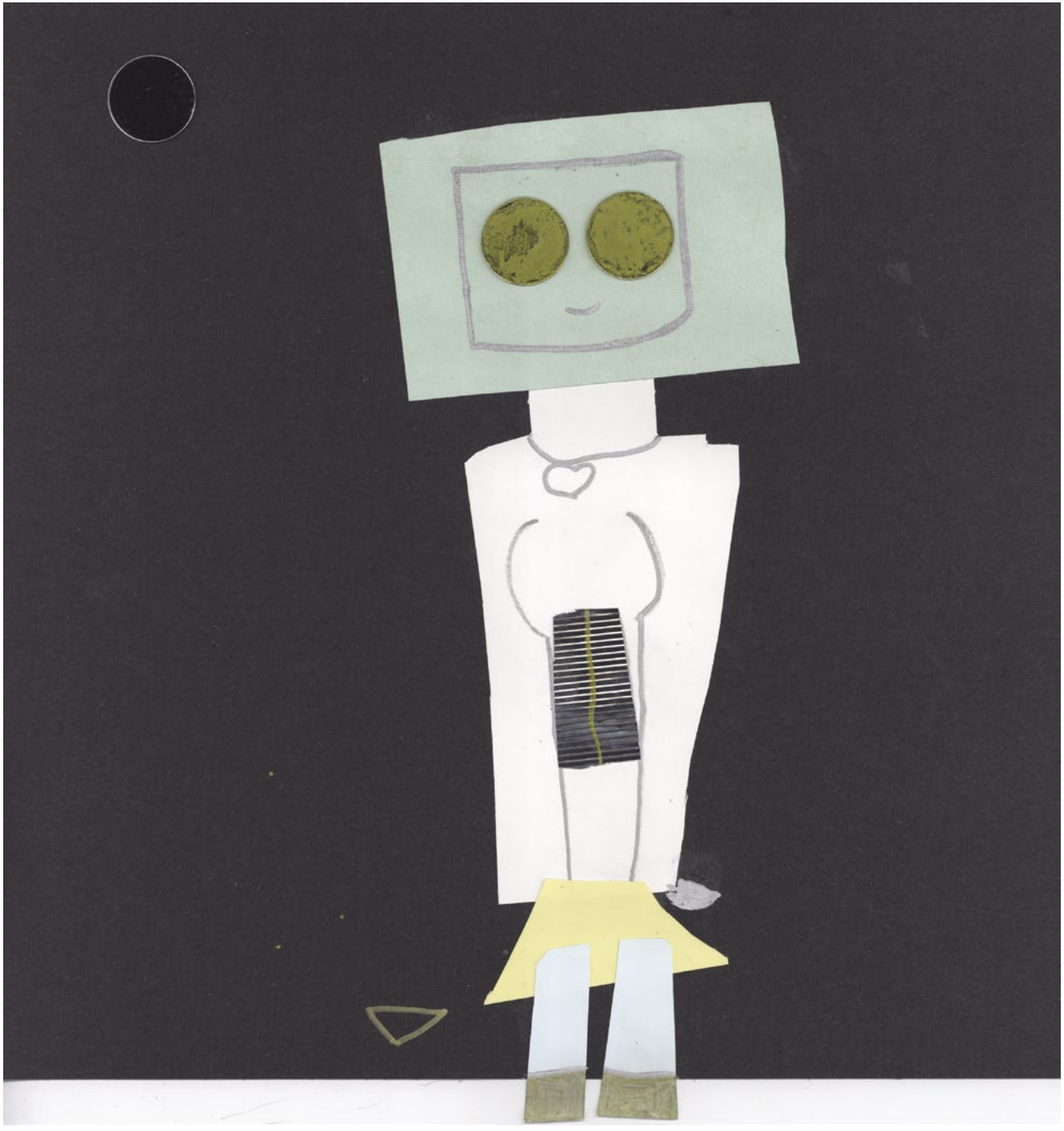
Name Chance Title My Robot

My robot name is the Helper. The problem that my robot solves is gun fite's. My robot stop people from gun fite's. The Helper look like a astronaut and on it's arm it got a graber and the robot have's a goil tank and it has a wooh to go back in time. and it got a dog name floffy it help's the robot. The robot help people like if it is a fire the robot will fly to the Fire. The robot delet's gun so the wold can be a beter place and it delet Sigare's so people dont hav bad lung's. The robot help sickness by making medasin.

BY **Chance**

Hello, my name is

# Melunda



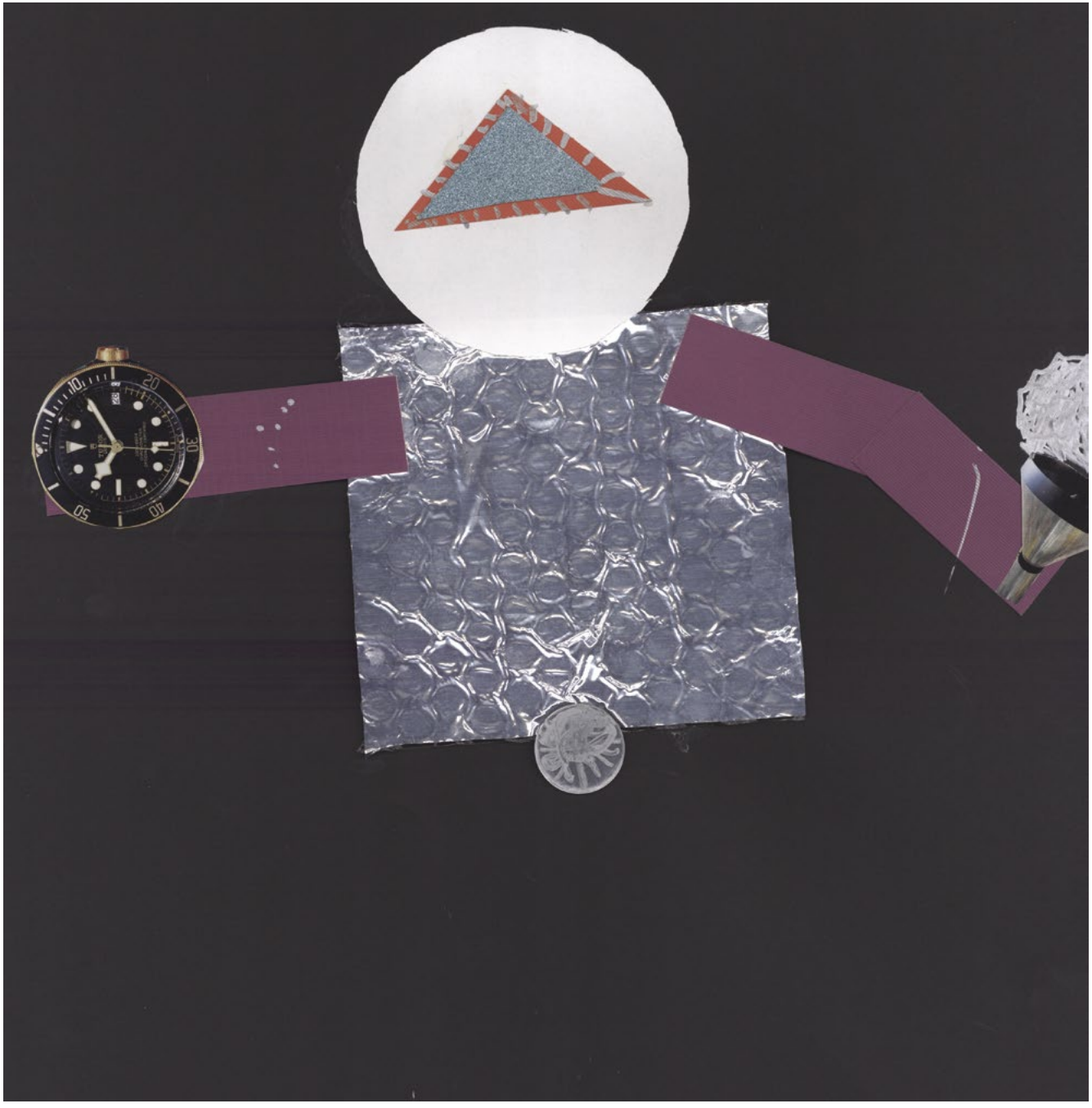
Name Mailee Title My Robot

My robot name is melunda the problem that my robot solves is no more racism black lives matter violints and slaves. She turns the bab pepole into toys and she punish them and takes away ther souls. But she loves kids and babysits them. She has golden eyes She also ha humam like arms and hands but she as four fingers and human like feet and legs She wears soft coths light pink yellow bule and purpul the center is wight She has a chacher taill to chase up, wen it's low. her h square head is lightskybule.

BY **Mailee**

Hello, my name is

# Bean



Name Kevin Title My Robot's

My robot's name is Beep. The problem that my robot is solving is that I lose track of time. So my robot Beep keeps track of time for me so I won't forget and be late. My robot looks cool. the head is made out of a circle and has a red sparkly triangle on it. The body is a silver square. It has two puple arms with a black He says "hello Kevin" He lifts his and tells me the time.

BY Kevin

Hello, my name is

# Fox Bot

Name Robyn Title My Robot

My robot's name is Fox Bot. The problem that my robot solves is littering. My robot stop's people from littering. Fox bot has a box for a head, fox ear's and a fox tail. She has tinfoil legs and tinfoil arms. Fox box has a micrphoen and a clock With a box dress.

The three function's that Fox bot can do is first Fox bot can rake leves. The second function is to put trash in the trash bag. The third function is to make trash disapear with her micrphoen. Fox box likes to have fun. The End!

BY **Robyn**

# About the Student Authors

**Class 4/5-216** is a self-contained 4th and 5th grade class whose students embrace every opportunity to learn, grow, and welcome any challenges that come their way. In our class, students use their unique abilities to create and collaborate with their innovative ideas to help this world be a better place for the future and to advocate for change. They are brave, brilliant and know that they matter.

Some of the students' favorite books include: *The Supa Dupa Kid, Dog Man, Diary of a Wimpy Kid, Bad Guys,* and *Captain Underpants*. In addition, students enjoy drawing, writing comics, and playing video games in their spare time.

# About the Visiting Author

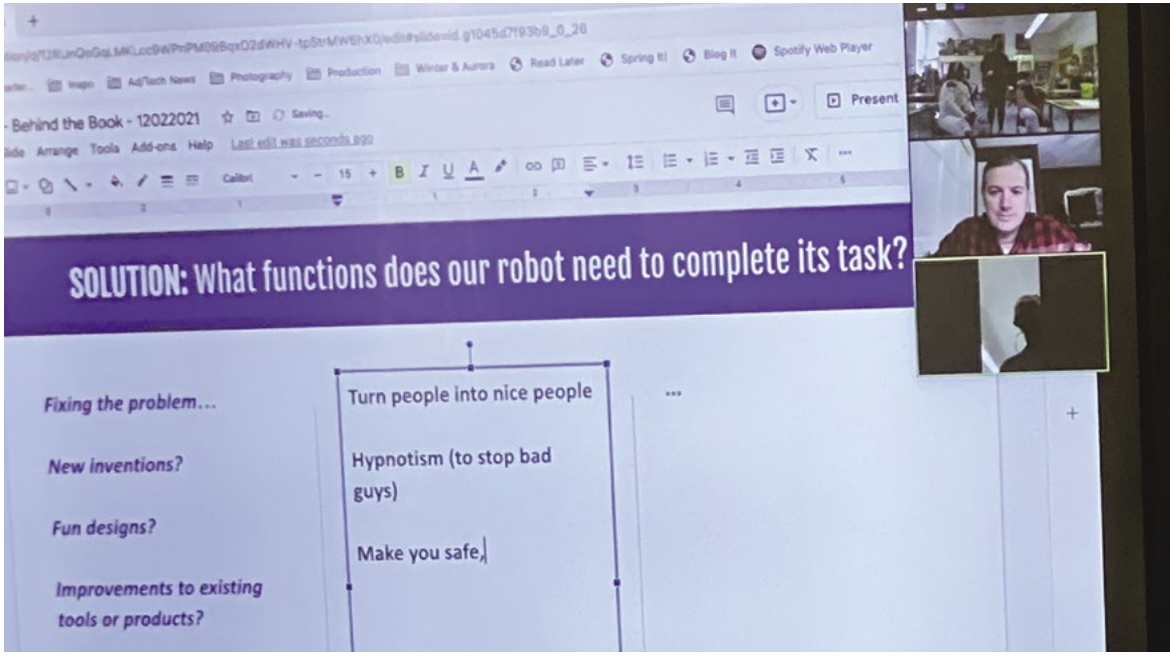
**Born and raised in Rhode Island**, the smallest state in the country, Nathan developed big aspirations to combine creativity and business from an early age. After an active childhood that included publishing poetry accompanied by watercolor paintings, completing art projects that changed the curriculum at his high school, and starting a pet care business that was featured in the state newspaper, Nathan attended Syracuse University where he earned dual bachelor's degrees in Advertising and English.

Nathan settled in New York City to kick off his career in advertising, first as a copywriter and then as a creative director.

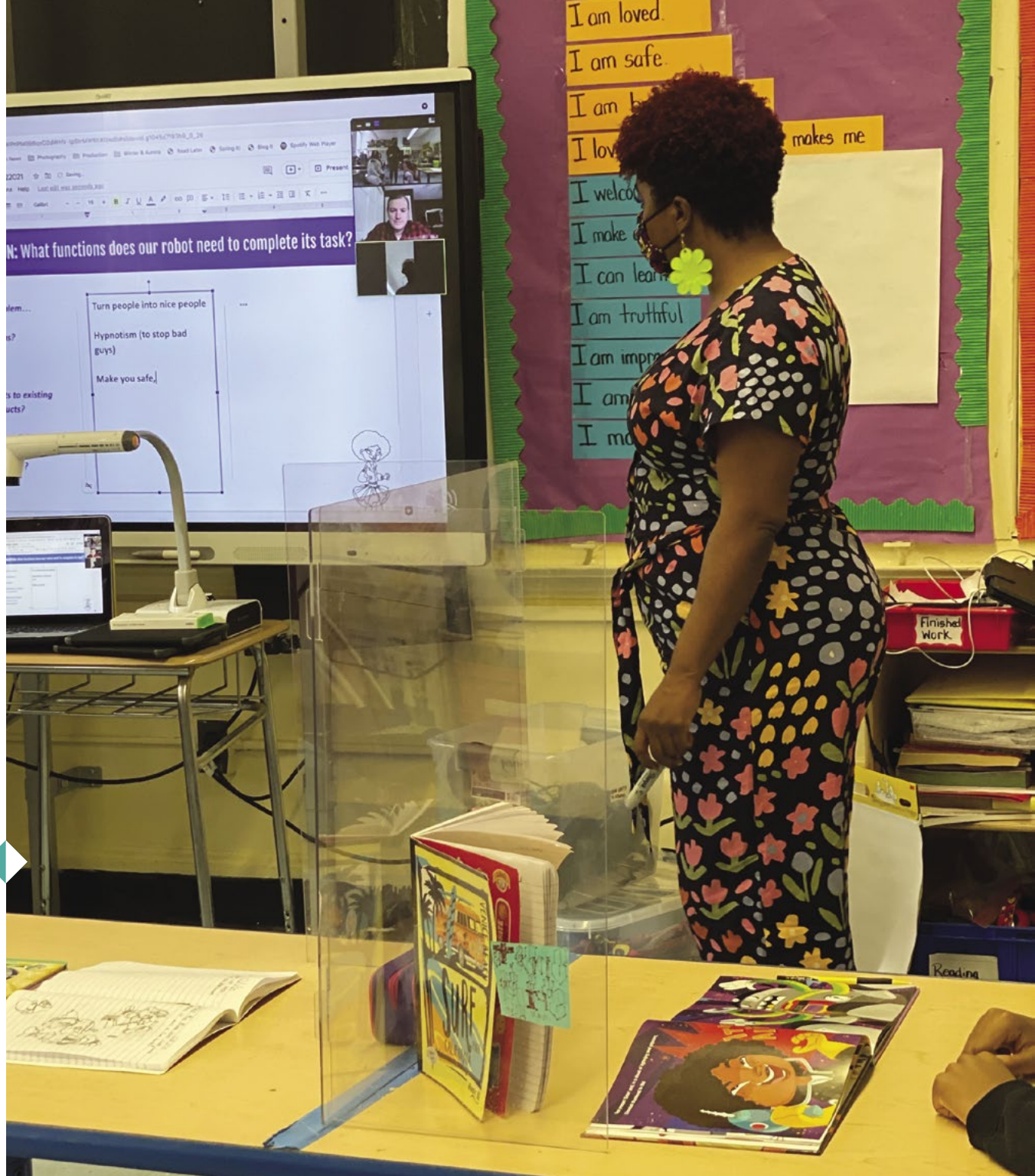
For one of Nathan's favorite projects was asked to inform parents about the gender gap in high-paying STEM careers that shape the future. When that project ended, Nathan wanted to keep drawing attention to this important cause. So he teamed up with some coworkers to write a picture book, *Rox's Secret Code* that inspires girls to get into coding. When not writing copy for ads or books for kids, you can find Nathan playing soccer with Boris his English Bulldog, or inspiring his two young daughters to discover their own superpowers.

# About
# Behind the Book

**Behind the Book brings authors and their books into classrooms** to build literacy skills and foster a community of lifelong readers and writers. Working with classes from Pre-K through 12th grade, our series of workshops is designed to bring books to life and inspire students to reach their full potential. Behind the Book is embedded in the class curriculum, nurtures critical thinking, creativity, and self-confidence in New York City public school students. All programs meet the Next Generation Learning Standards.



# Next Gen Learning Standards Addressed



**Math Operations and Algebraic Thinking:**
NY-4.OA: Generate and analyze patterns.
5. Generate a number or shape pattern that follows a given rule. Identify and informally explain apparent features of the pattern that were not explicit in the rule itself.

**Reading Key Ideas and Details**:
4R3 & 5R3: In literary texts, describe a character, setting, or event, drawing on specific details in the text. Informational texts, explain events, procedures, ideas, or concepts, including what happened and why, based on specific evidence from the text.

**Writing Types and Purposes:**
4W3 & 5W3: Write narratives to develop real or imagined experiences or events using effective technique, descriptive details, and clear event sequences.

**Writing Comprehension and Collaboration:**
4SL1 & 5SL1: Engage effectively in a range of collaborative discussions with diverse partners, expressing ideas clearly, and building on those of others.

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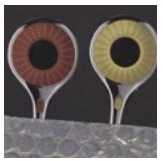
Mailee



Ismael

Cassidy

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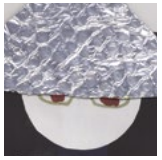
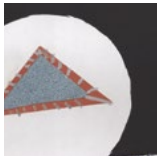
Robyn

Makayla





Sidney

Kevin

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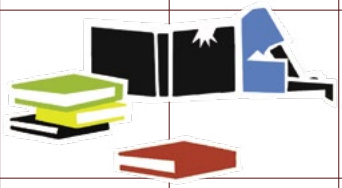

Osniel