

What Does STEM Look Like?





Foreword

Dear Reader,

Have you ever gazed at the night sky and wondered where our universe comes from, or what is out there?

Have you ever heard of STEM or envisioned what a person in STEM looks like?

Follow Anna's journey to discover the many opportunities within the fields of

Science, Technology, Engineering, and Mathematics. Find out what the stars have to show and see the images of STEM that they create – maybe you even drew a few!

We hope this inspires you and others to realize... Anyone could be in STEM!

Abbott's Women in STEM Network

Abbott's Women in STEM Network elevates women working in science, technology, engineering and math. We do this through career development, networking, recruitment and recognition opportunities for Abbott employees, and through community outreach. Members hope to inspire rising STEM talent today to be tomorrow's problem solvers.



Dedication & Thank You



This book is dedicated to those who inspire us to take on the STEM journey and who truly champion our voices and passions. You know who you are.

This book is also dedicated to the next generation. Be the spark and own your awesomeness!

Arwa Kassamali

The Women in STEM Network would like to thank our supporters, sponsors, and colleagues at Abbott who are working every day to help people live better, healthier lives through the power of STEM. And a special thank you to the young artists who sent us the images that inspired this book!



Thank you to our volunteers who helped bring this book to life



Arwa Kassamali



Patricia Fitzgerald



Lauren Harvey



Lauren Clark



Heather Anne Wright



Trish Casey



Sonia Bendjemil



Aynaz Eliason-Carey



Madhavi Ayyalasomayajula



Jeanie Kasper



Jennie Mehls

Anna loves to learn. Through books, equations, and her laptop, she discovers more about the world she lives in.



Most of all, her telescope is her favorite way to learn. One night, she looked up at the stars and asked: What should I be when I grow up? To her surprise, the stars answered.

Illustration inspired by: Jyl Madlem and Kyle Hannigan

The stars formed a constellation that spelled out the letters S, T, E, and M, which stand for Science, Technology, Engineering, and Mathematics.



STEM is a field full of many different passions and possibilities — the opportunities are endless! Anna decided to go back to each letter to find out more.

Illustration inspired by: Jeanie Kasper and Ruby McGowan



The stars first combined to form the letter **S**.
Then, they began to show Anna all sorts of Sciences to study.



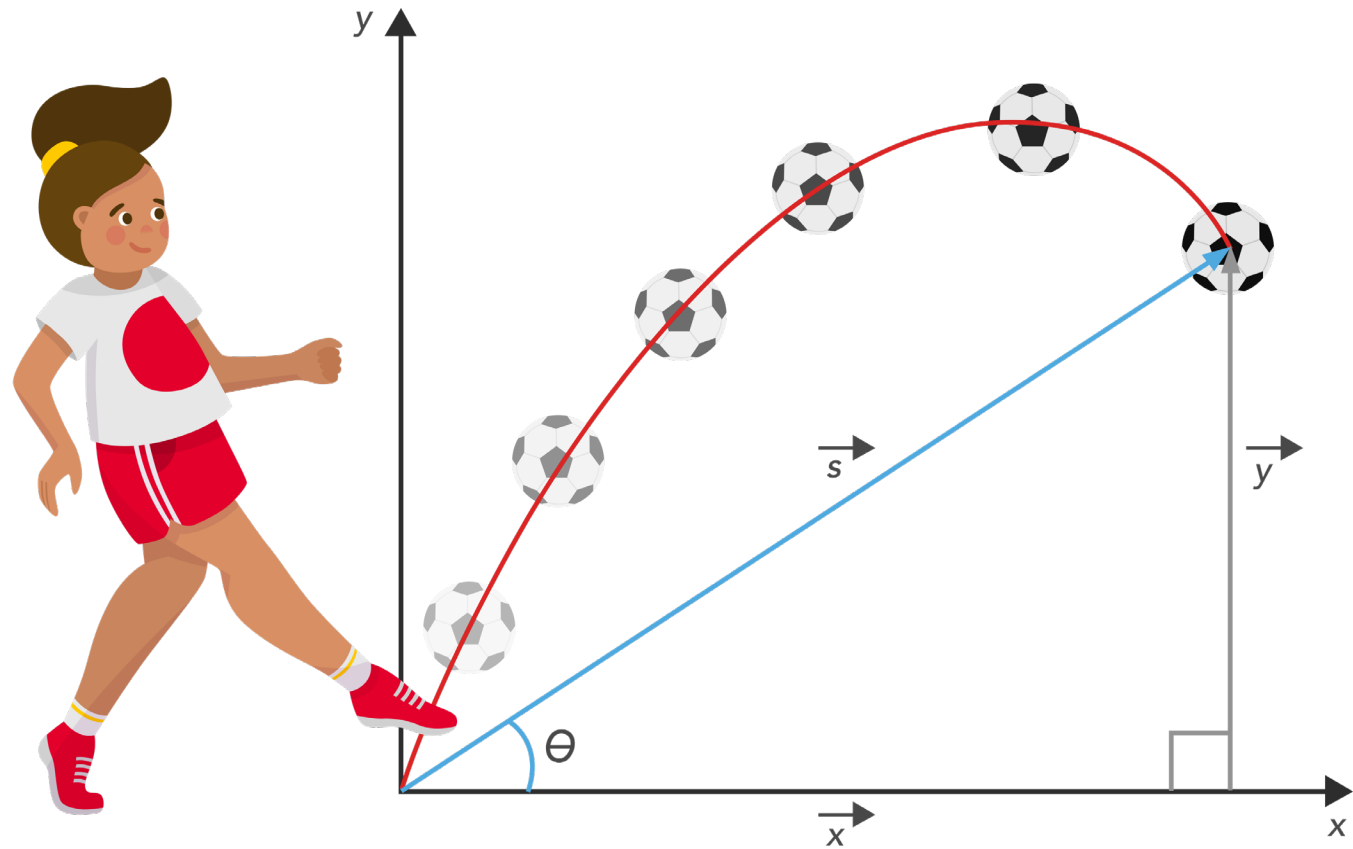
She loves the zoo and nature, so she could become a Biologist
and research how animals behave in their habitat.



If she wanted to use her art skills, she could even become a Biological Illustrator and learn about the bone structure of animals or create Botanical drawings of plants.

Her rock collection could mean she could be a great Geologist and study fossils, crystals, and geodes.



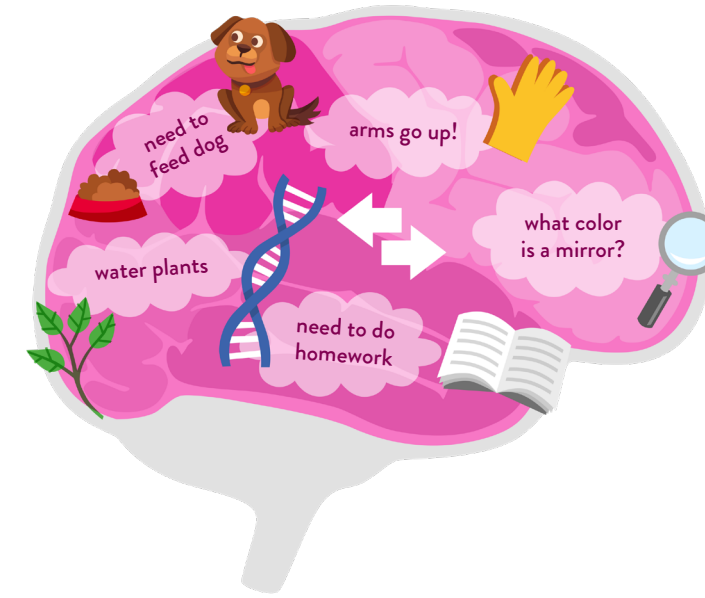


If she wanted to learn about the gravity, motion, and acceleration of atoms in objects, she could become a Physicist.



As a Chemist, she could perform experiments to research and develop new ideas! She could mix potions and create chemical reactions that look like a volcano erupting!

As a Virologist, she could study viruses like the flu.



She could even become a Neuroscientist and work on the nervous system, brain, and spinal cord to help reduce pain and maintain muscle control.



Or she could help solve crimes as a Forensic Scientist and use molecular science tools to match DNA evidence!

Or, she could set her sights on tastier heights and become a Food Scientist and help improve the nutritional levels of food or find a way to make chocolate taste even better.



Illustrations inspired by: Jodi Small and Niamh Kennedy



Anna was amazed at how many types of sciences she could do, so she continued her search into Technology, Engineering, and Math.



When Anna looked at the constellation of a **T**, she saw a field where her imagination could thrive. She can push the limits of science and help make people's lives better. Technology is so much more than just mechanical components, electronic circuits, and software. Designed together, they make everyday lives easier!

Anna thought of what is beyond the galaxy she sees in her telescope.
With Technology always evolving, she could create additional tools
to further explore zero-gravity environments!

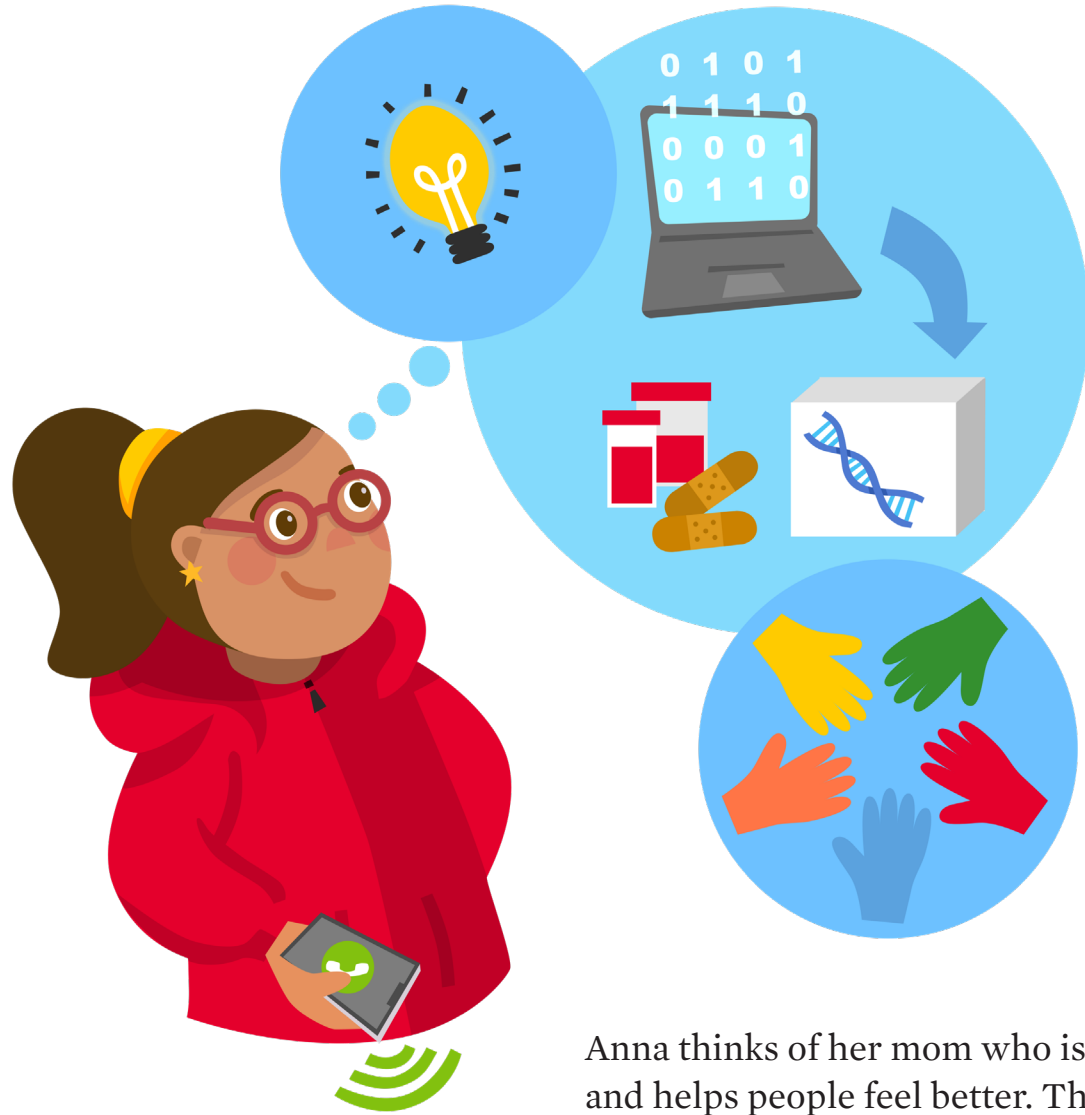


Then the stars formed an **E** constellation and Anna saw Engineering,
where she could research and build all sorts of things!



As a Civil Engineer, she could work on building public works like roads, bridges, and skyscrapers. Then, they showed her how cars have changed over the years. In the 1900s, people walked faster than their cars. Now, cars are faster and safer thanks to Mechanical Engineers!

As an Environmental Engineer, Anna could find new ways to use renewable resources like powering a car with solar energy. She could also learn to harness the movement of water to create hydropower as an Electrical Engineer. Engineers put ideas into motion!



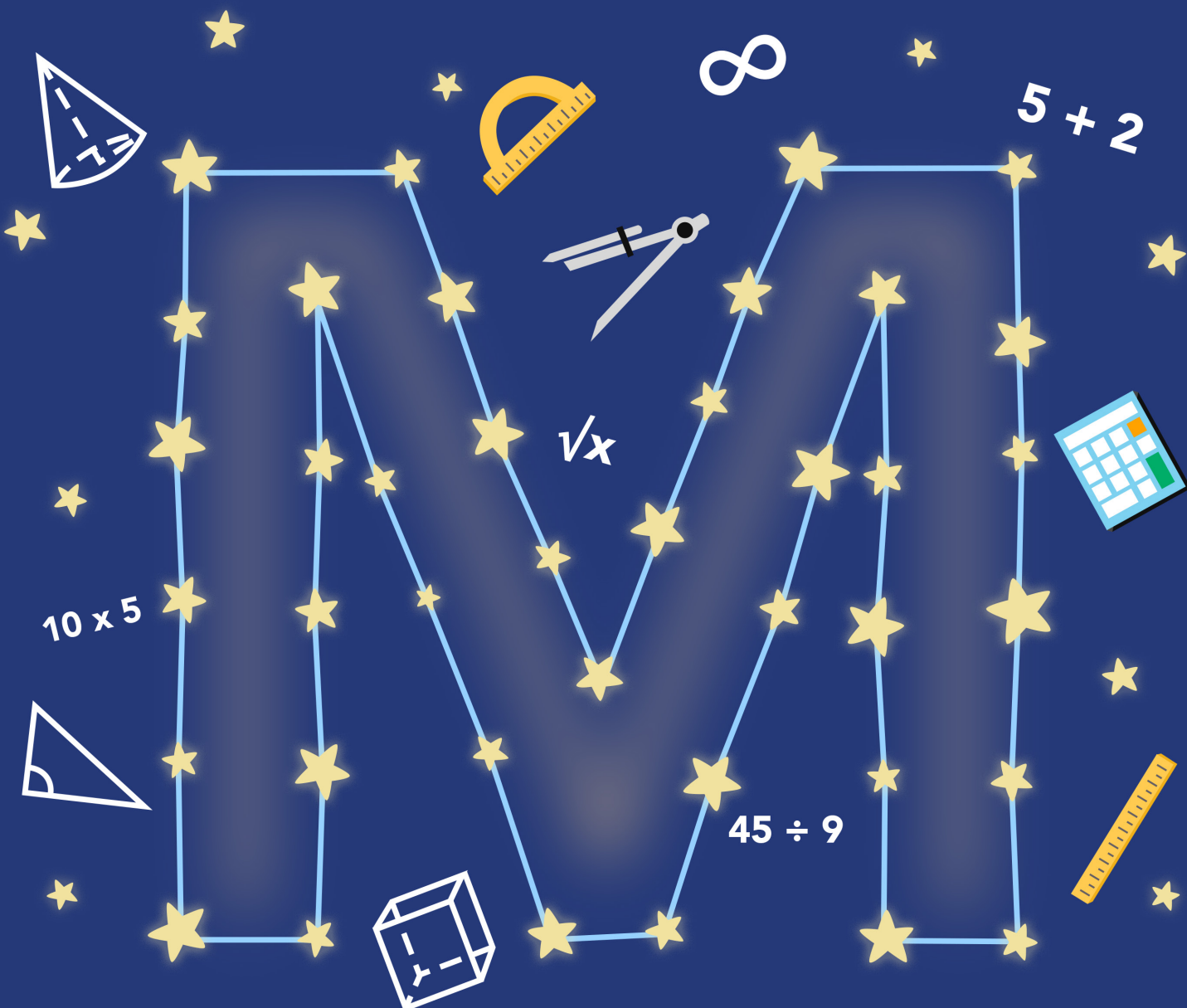
Anna thinks of her mom who is a Nurse and helps people feel better. This is something she could do as an Engineer too and apply problem-solving methods to achieve creative solutions.



Chemical Engineers solve problems that involve chemicals, fuel, food, and many other products to help make processes run more smoothly.

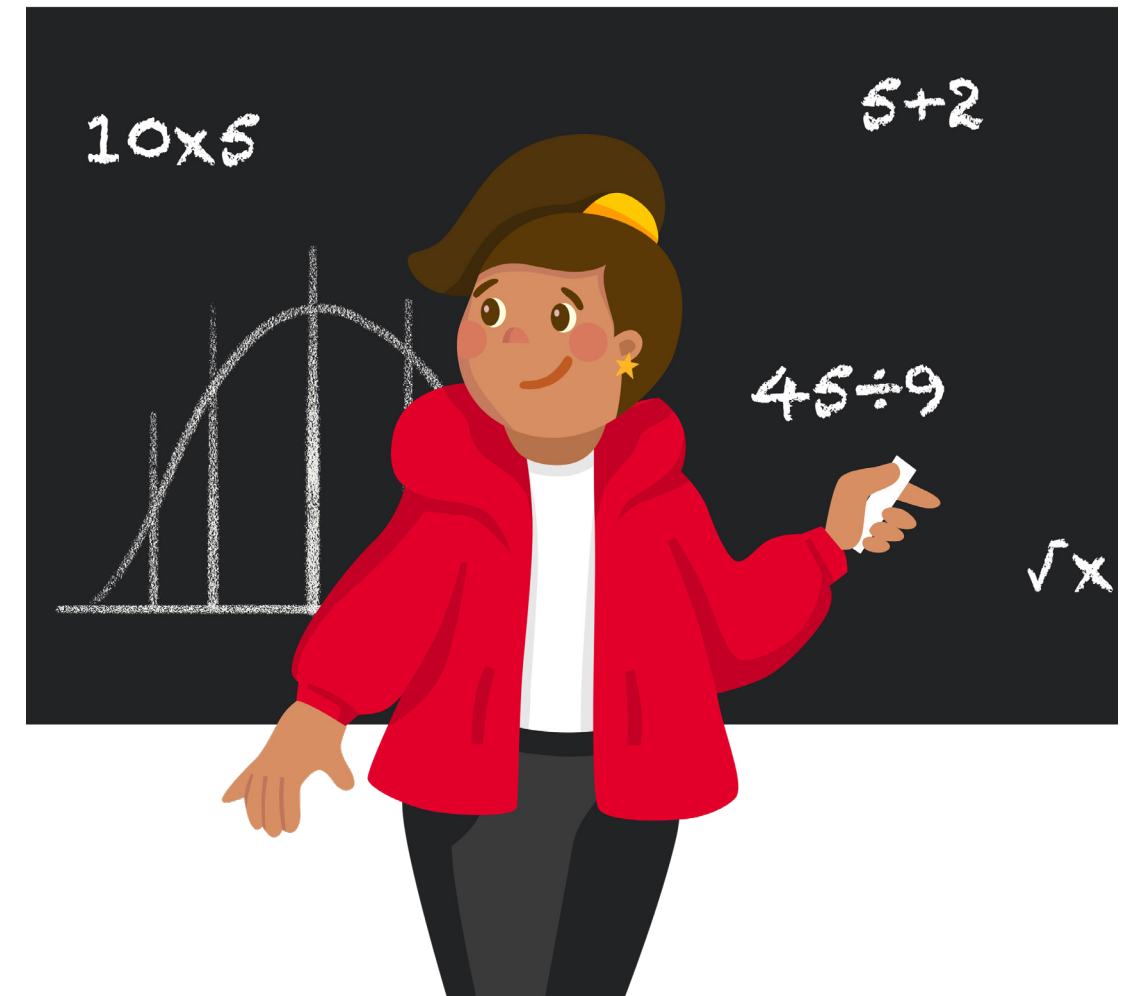
She could even work with the human body as a Biomedical Engineer and build body parts and organs for people who need new ones!





Anna used to think Math was just a bunch of numbers, but when the stars formed the letter **M**, they showed her how useful those numbers are in the real world!

Mathematicians analyze data and solve problems in business, healthcare, and so many other fields.



Anna could even become a Statistician and try to predict the future by studying the probability from past events — now that would be cool!

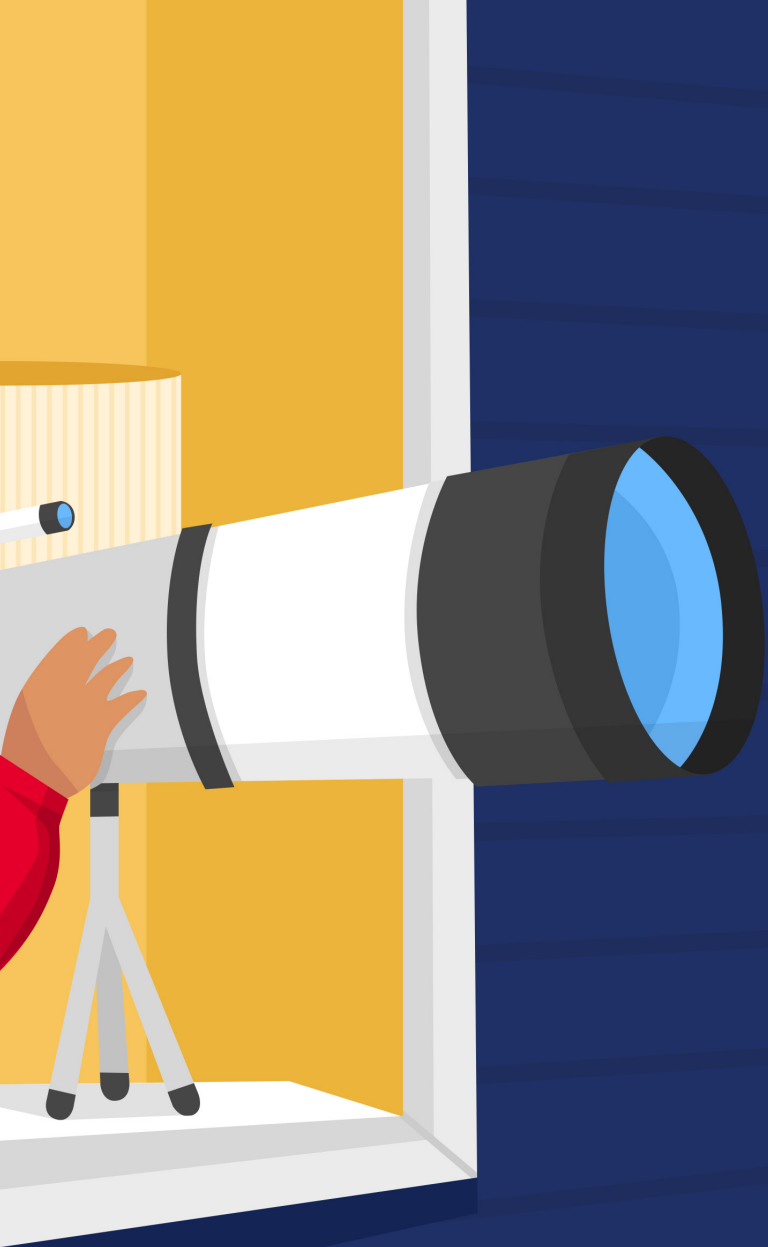
Math is all around us in objects, pictures, and patterns too. Anna could study Geometry and learn about shapes or use her knowledge of Math to become a famous artist!



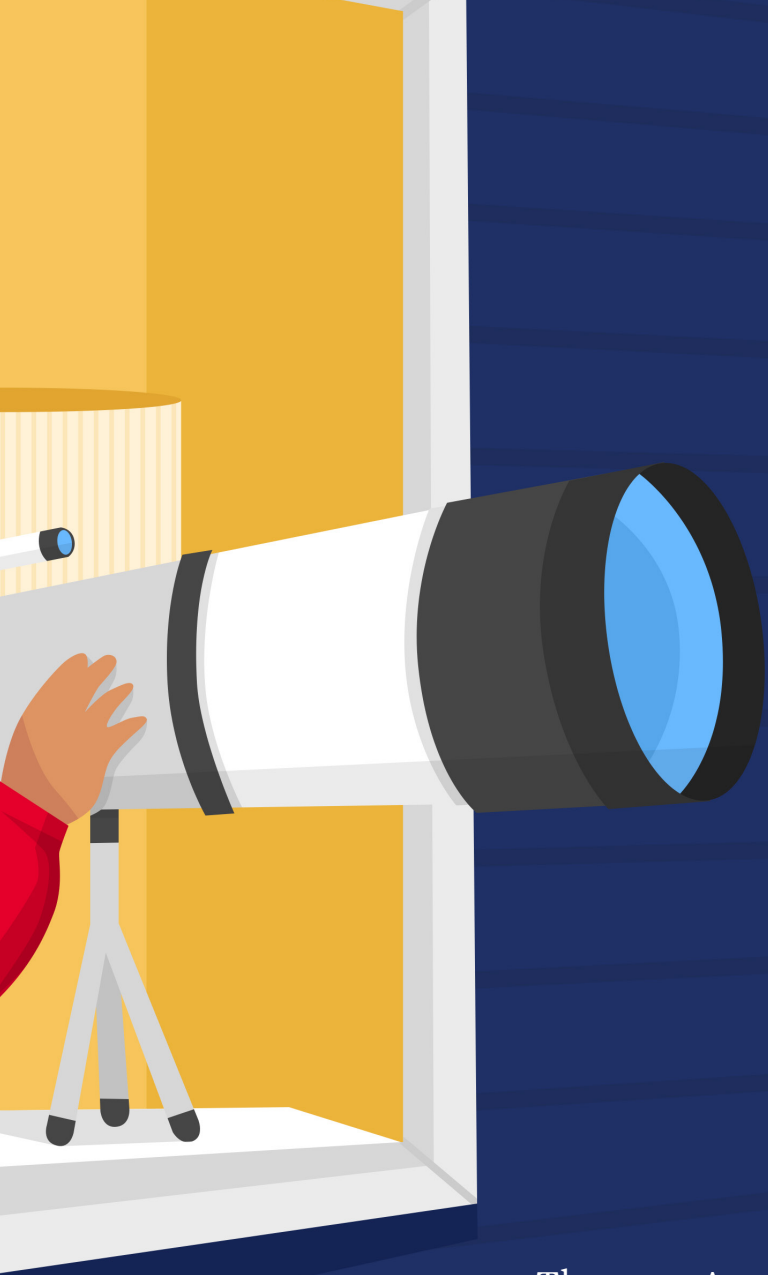
The stars tell her about the Fibonacci sequence, a pattern made from numbers that artists use to have viewers focus on an unexpected location in their art.



Anna is so surprised when the stars tell her how creative STEM can be. She now knows her imagination is what will make her a great Scientist, Technologist, Engineer, or Mathematician.



After watching the story of STEM from the stars, Anna sees how connected each career in STEM really is and also how everyone works together to help the world be a better place!



The more Anna grows and learns, the more she will discover her path and start a career in STEM.



Look up to see what the stars tell you. You can be the next great Scientist, Technologist, Engineer, or Mathematician, too!



This book was made in partnership with GALE Partners,
with illustrations by Navina Chhabria.

Our wonderful artists who shared with us their visions of **STEM**

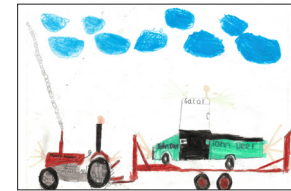
Aaron Taragophia, Age 7
 Adam Li, Age 7
 Alex Hernandez, Age 7
 Alfie Mullen, Age 10
 Amelia Potter, Age 11
 Andrew Quinn, Age 10
 Andrey Samaray, Age Unknown
 Arianna Villanueva, Age Unknown
 Ariel Maret, Age Unknown
 Ario Butz, Age Unknown
 Arwa Kassamali, Age Unknown
 Aubri Ceja, Age 7
 Ben de Bie, Age 10
 Blake Powell, Age 7
 Carmela Cheng, Age 7
 Casey McLoughlin, Age 10
 Ciara Byrne, Age 10
 Ciaran O Hara, Age 10
 Cillian Rooney, Age 10
 Corey Duffy, Age 10
 Daniel McGoldrick, Age 10
 Eleanor Tran, Age 7
 Ella Guel, Age 7
 Emily O'Connor Kerins, Age 10
 Evan Pacey, Age Unknown
 Geraldine Aclaro-Duncan, Age Unknown
 Giulia Poppozilo, Age 7
 Gurshaan Kaulsay, Age 7
 Hallie Morrison, Age Unknown
 Hanna Kusmierczyk, Age 10
 Harshaa Sudhakar, Age 5
 Isla Ubert, Age 7

Ivanna Hernandez, Age 7
 Jacob Bridges, Age 7
 Jaylen Howle, Age 7
 Jeanie Kasper, Age Unknown
 Jessica McGoldrick, Age 10
 Jodi Small, Age Unknown
 Jyl Madlem, Age Unknown
 Kate Richardson, Age Unknown
 Krithi Ganti, Age 12
 Kyle Hannigan, Age 9
 Lauren Harvey, Age Unknown
 Leo May, Age 7
 Lewis Taylor, Age 10
 Madison Deason, Age 7
 Mai Nguyen, Age 7
 Marcus Brooks, Age 18
 Mariah Lang, Age Unknown
 Marlene Carranza, Age Unknown
 Masindi Mudau, Age 10
 Michael Kelly, Age 10
 Mila Levitan, Age 8
 Morgan Ubert, Age 4
 Niamh Kennedy, Age 10
 Patrick Bruen, Age 10
 Ruby McGowan, Age 10
 Ryan Bumcrat, Age 8
 Teri Pacion, Age Unknown
 Vivian Mashweri, Age 7
 Yug Patel, Age 7
 Zareen Saigar, Age 7
 Zion Lacy, Age 7
 Zoe Carty, Age 10

All the artwork in this book is based on real drawings from kids interested in learning about **STEM**, just like Anna. See their drawings here!



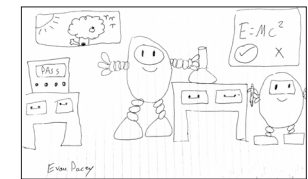
Hanna Kushmierczyk



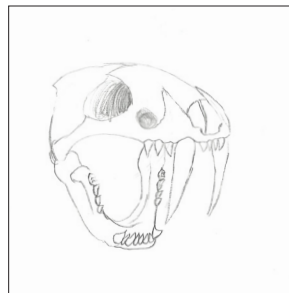
Patrick Bruen



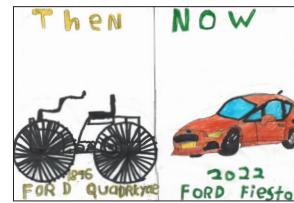
Jeanie Kasper



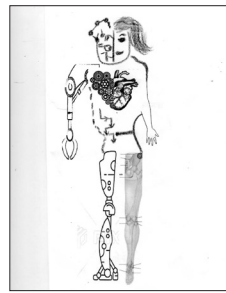
Evan Pacey



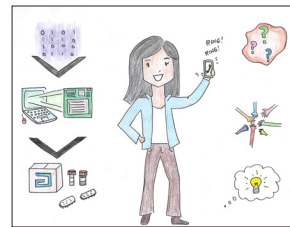
Amelia Potter



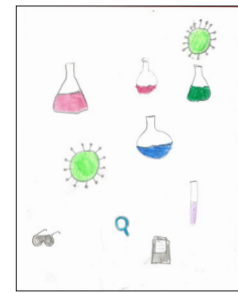
Andrew Quinn



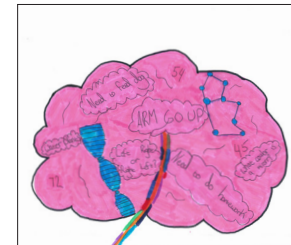
Arwa Kassamali



Ariel Maret



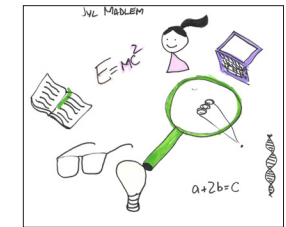
Jessica McGoldrick



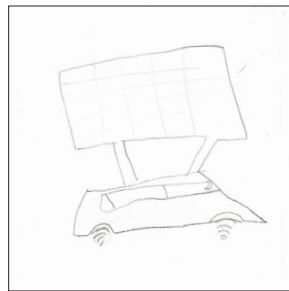
Niamh Kennedy



Kate Richardson



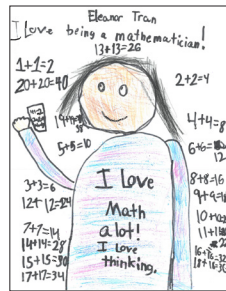
Jyl Madlem



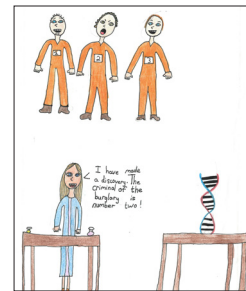
Ben De Bie



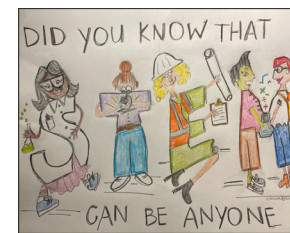
Blake Powell



Eleanor Tran



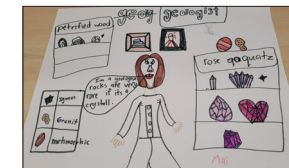
Emily O'Connor Kerins



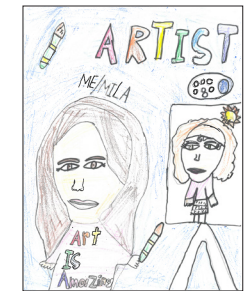
Lauren Harvey



Mariah Lang



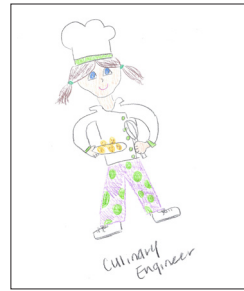
Mai Nguyen



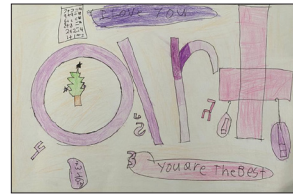
Mila Levitan



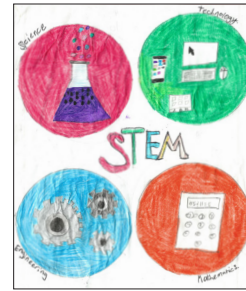
Morgan Ubert



Jodi Small



Zareen Saigar



Ruby McGowan



Arianna Villanueva



Aubri Ceja



Ario Butz



Ella Guel



Zion Lacy



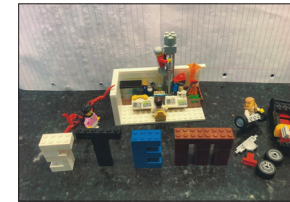
Zoe Carty



Yug Patel



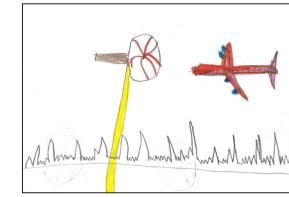
Andrey Samaray



Cillian Rooney



Corey Duffy



Ciara Byrne



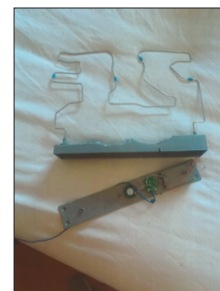
Daniel McGoldrick



Adam Li



Alex Hernandez



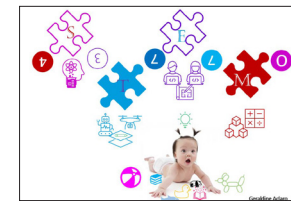
Alfie Mullen



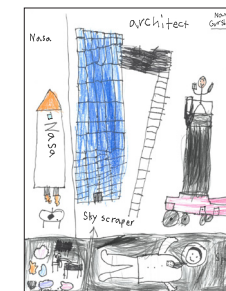
Aaron Taragophia



Giulia Poppozilo



Geraldine Aclaro-Duncan



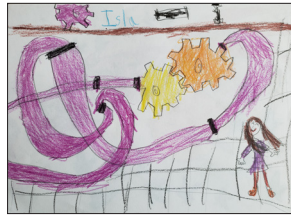
Gurshaan Kaulsay



Hallie Morrison



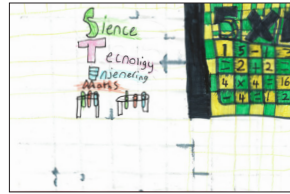
Harshaa Sudhakar



Isla Ubert



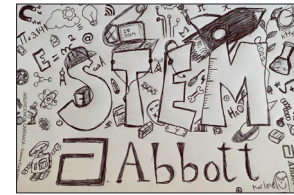
Isla Ubert



Kyle Hannigan



Marcus Brooks



Marlene Carranza



Masindi Mudau



Michael Kelly



Jacob Bridges



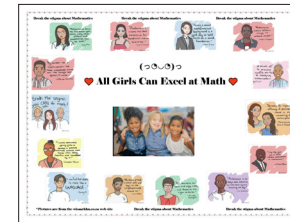
Jaylen Howle



Krithi Ganti



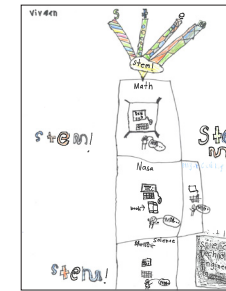
Ivanna Hernandez



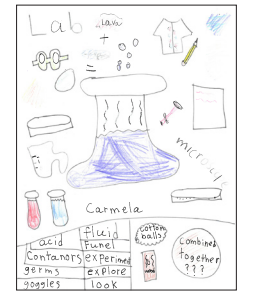
Teri Pacion



Ryan Bumcrat



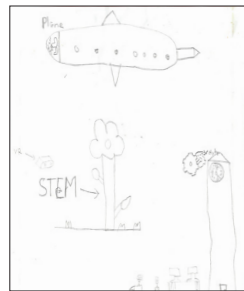
Vivian Mashwer



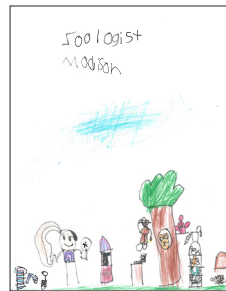
Carmela Cheng



Leo May



Lewis Taylor



Madison Deason



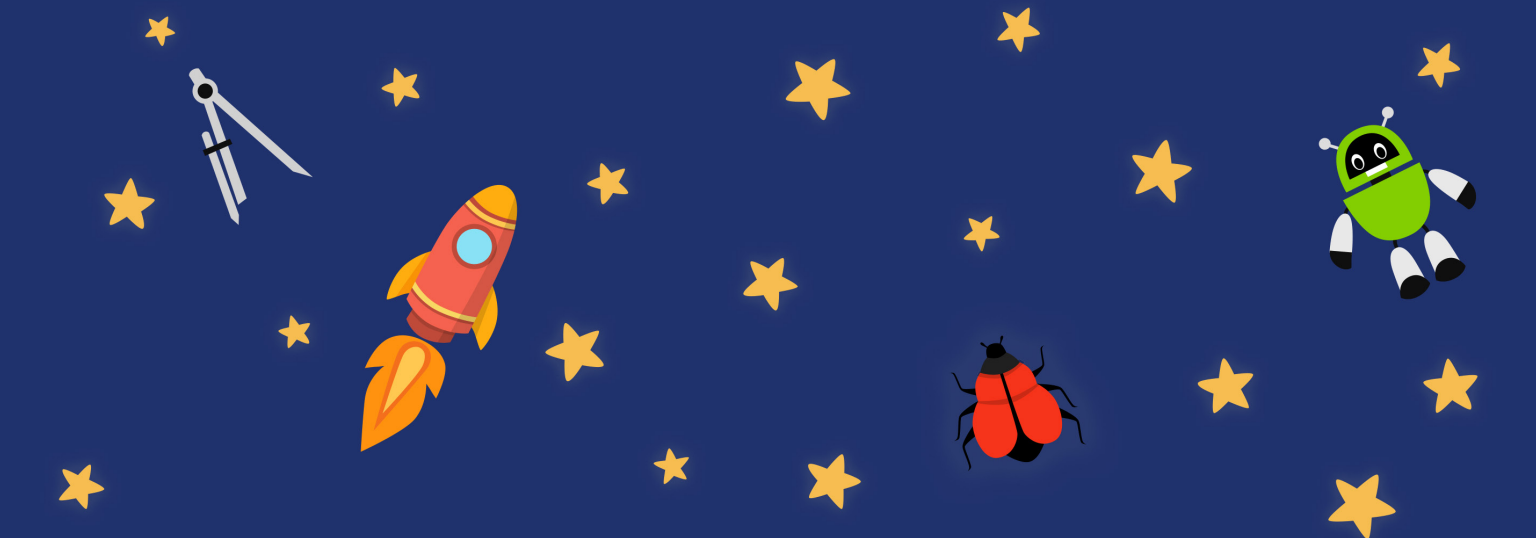
Mai Nguyen



Ciaran O Hara



Casey McLoughlin



Anna does not know what she wants to be when she grows up. One night she uses her telescope to look at the constellations and they tell her a story about STEM. She discovers how her interest in animals, art, and space could lead to jobs in Science, Technology, Engineering, and Mathematics — STEM.

With this new knowledge, there is no limit to who Anna can be!

