



### Science Related YouTube Channels to Watch as a Family:

#### **Mark Rober**

Link: <https://www.youtube.com/user/onemeeliondollars>

Mark Rober is a former NASA engineer who tests large-scale and fun experiments, such as building the perfect squirrel proof bird feeder, how to measure how much pee is in your pool, and explaining carnival scam science.

#### **Smarter Everyday**

Link: <https://www.youtube.com/user/destinws2>

Destin is an engineer who wants to get smarter every day by exploring the world. Destin has a wide range of science experiments, including but not limited to “slow motion flipping cat physics,” “how sonar works,” and “how to harvest pecans.”

#### **The Space Gal**

Link: <https://www.youtube.com/user/EmToTheCaL>

Emily Calandrelli is an MIT engineer turned science communicator. She is also the Emmy-nominated host and an Executive producer for FOX's Xploration Outer Space, a correspondent on Netflix's Bill Nye Saves the World, author of the STEM-driven chapter book series for ages 6-10 called the Ada Lace Adventures, and a public speaker. Her YouTube channel hosts a variety of content, including 21 kid-friendly experiments to try at home!

### Children’s Fiction Books with STEM Themes:

***A Computer Named Katherine: How Katherine Johnson Helped Put American on the Moon.* by Suzanne Slade. Illustrated by Veronica Miller Jamison. 2019. Little Brown Books for Young Readers. 40 pages. Reading level: Grades K-3.**

A biography of NASA mathematician Katherine Johnson.

- Cheat, Clay Battelle, Clinton, and Morgantown libraries under E SLA call number
- Libby as an ebook or audiobook.

***Ada Lace, on the case : an Ada Lace adventure.* by Emily Calandrelli with Tamson Weston. Illustrated by Renée Kurilla. 2017. Simon & Schuster Books for Young Readers. 123 pages. Reading level: Grades 1-5.**

Eight-year-old Ada, who has a knack for science, math, and solving mysteries, teams up with her best friend, Nina, to find a missing dog. First book in the *Ada Lace* series.

Available at:

- All Morgantown Public Library System libraries.
- Libby as an ebook.

***Ada Twist, Scientist.* by Andrea Beaty. Illustrated by David Roberts. 2016. Abram Books for Young Readers. 32 pages. Reading level: Grades K-2.**



Ada Twist is a scientist and second grader who is VERY CURIOUS! She has all kinds of questions about everything. One day she notices a stinky smell outside. She decides to investigate but gets into lots of trouble along the way!

Available at:

- Cheat, Clinton, and Morgantown libraries under E BEA call number
- Hoopla as an ebook, movie, movie with read-along, and audiobook.
- Libby as a ebook

***Cece Loves Science* by Kimberly Derting and Shelli R. Johannes. Illustrated by Vashti Harrison. 2016. Greenwillow Books. 40 pages. Reading level: Grades K-3.**

Cece loves science and is excited when her teacher Ms. Curie, assigns a science project! Cece and her best friend Isaac decide to ask—do dogs eat vegetables? Cece and Isaac do a science experiment with her dog Einstein to find the answer!

Available at:

- Cheat and Morgantown libraries under E DER call number
- Hoopla as an audiobook.

***Do Not Lick This Book.* by Idan Ben-Barak. Illustrated by Julian Frost with photographs by Linnea Rundgren. 2018. Roaring Brook Press. 40 pages. Reading level: Pre K- 3.**

Min is a microbe. ...Open this book and take Min on an adventure to amazing places she's never seen before -- like the icy glaciers of your tooth or the twisted, tangled jungle of your shirt.

Tip: Have children pretend to follow Min's directions so they are not spreading germs. :)

Available at:

- Arnettsville and Cheat libraries under E BEN call number.

***The Fourteenth Goldfish.* by Jennifer L. Holm. 2014. Random House. 194 pages. Reading level: Grades 3-7.**

Ellie's scientist grandfather has discovered a way to reverse aging, and consequently has turned into a teenager--which makes for complicated relationships when he moves in with Ellie and her mother, his daughter.

Available at:

- Cheat, Clinton, and Morgantown libraries under C HOL call number.
- Libby as an ebook.

***Libby Loves Science: Mix and Measure.* Kimberly Derting and Shelli R. Johannes. Pictures by Joelle Murray. 2021. Greenwillow Books. 40 pages. Reading level: Grades K-1.**



"Libby hosts a puppy party for her friends and their dogs. With the help of her friend Rosa and little brother, Libby decorates, stuffs goody bags and bakes delicious cupcakes. But when they realize they've forgotten an important ingredient, they use science to solve the problem just in the nick of time."

Available at:

- Clinton, Cheat, and Morgantown libraries under ER DER call number
- Libby as ebook.

***The Most Magnificent Thing.* by Ashley Spires. Illustrated by Ashley Spires. 2014. Kids Can Press. 32 pages. Reading level: Pre K- Grade 2.**

A little girl has a wonderful idea. With the help of her canine assistant, she is going to make the most magnificent thing! She knows just how it will look. She knows just how it will work. But making the most magnificent thing turns out to be harder than she thinks.

Available at:

- Clinton and Morgantown libraries under E SPI call number
- Hoopa as an ebook and movie.
- Libby as an ebook.

***Science Verse.* By Jon Scieszka. . Illustrated by Lane Smith. 2004. Viking. 40 pages. Reading level: Pre K- Grade 2-5.**

When the teacher tells his class that they can hear the poetry of science in everything, a student is struck with a curse and begins hearing nothing but science verses that sound very much like some well-known poems.

Available at:

- Morgantown Public Library under E SCI call number

### **Children's NonFiction Books with STEM Themes:**

***Awesome Kitchen Science Experiments for Kids : 50 STEAM Projects You Can Eat!* by Dr. Megan Olivia Hall. 2020. Rockridge Press. 193 pages. Reading level: Ages 5-10.**

"50 educational (and edible!) science experiments you can do at home. In laboratories, at school, and even in your house--science happens everywhere. Awesome Kitchen Science Experiments for Kids brings the excitement of scientific investigation to your kitchen with a heaping helping of experiments that you can really sink your teeth into!"

Available at:

- Clay Battelle and Cheat libraries under C 507.8 HAL.



***Awesome Science Experiments for Kids : 100+ Fun STEAM Projects and Why They Work.*** by Crystal Chatterton. *Photography by Paige Green.* 2018. Rockridge Press. 238+ pages. Reading level: Ages 5-10.

"Loaded with 100+ kid-tested experiments in science, technology, engineering, art, and math--Science Experiments for Kids puts the STEAM back in learning. Getting kids excited about science can be difficult. Science Experiments for Kids provides young scientists ages 5-10 with hands-on experiments that teach them how to apply the scientific method. From the home laboratory of former chemistry teacher and blogger behind the Science Kiddo, Crystal Chatterton combines fun experiments with the hows and whys behind them in Science Experiments for Kids ... From figuring out how quicksand works to turning a lemon into a battery, Science Experiments for Kids teaches young scientists how cool it is to be curious.!"

Available at:

- Arnettsville and Clinton libraries under C 507.8 CHA .

***Cardboard Box Engineering : Cool, Inventive Projects for Tinkerers, Makers & Future Scientists.*** by Jonathan Adolph. 2020. Storey Publishing. 175 pages. Reading level: Grades 4-8.

"Working with simple household tools, kids can follow the step-by-step photographic instructions to exercise their design smarts, expand their 3-D thinking, and learn the basics of physics and engineering with activities that have real-life applications."

Available at:

- Clinton, Cheat, and Morgantown libraries under C 745.54 ADO call number.
- Hoopla as ebook.

***Do It Now!: Science Wild Experiments & Outdoor Adventures.*** By Sarah Hines Stephens and Bethany Mann. 2012. Weldon Owen. 55 pages. Reading level: Ages 6-12 years. Includes 82 do-it-yourself science experiments and explorations in nature!

Available at:

- Cheat Area Public Library under C 507.8 HIN call number.

***Hidden Figures : The Untold True Story of Four African-American Women who Helped Launch our Nation into Space.*** By Margot Lee Shetterly. 2016. Harper Collins. 231 pages. Reading level: Grades 3-7.

Explores the previously uncelebrated but pivotal contributions of NASA's African-American women mathematicians to America's space program, describing how Jim Crow laws segregated them from their white counterparts despite their groundbreaking successes.

Available at:

- Arnettsville, Cheat, Clay Battelle, and Clinton libraries under C 510.92 SHE call number.
- Hoopla as an audiobook and ebook.
- Libby as an audiobook and ebook.



***Kid Scientists: True Tales of Childhood from Science Superstars.* by David Stabler. Illustrated by Anoosha Syed. 2018. Quirk Books. 208 pages. Reading level: Grades 4-7.**

"Forget the moon landing, the Nobel prizes, and the famous inventions. When the world's most brilliant scientists were growing up, they had regular-kid problems just like you. Albert Einstein daydreamed instead of paying attention in class. Jane Goodall got in trouble for bringing worms and snails in her house. And Neil deGrasse Tyson had to start a dog-walking business to save up money to buy a telescope. Kid Scientists tells these stories and more with full-color cartoon illustrations on nearly every page."

Available at:

- Morgantown Public Library under C 509.22 STAI call number.
- Hoopa as an audiobook.

***Kitchen Science Cabinet Projects : Fifty Amazing Science Experiments to Make with Everyday Ingredients.* by Dr. Michelle Dickinson. 2018. Penguin Workshop. 159 pages. Reading level: Grades 3-7.**

Includes a variety of science experiments that can be done using everyday items from your kitchen that cost under \$5.00.

Available at:

- Clay Battelle and Cheat libraries under C 507.8 DIC call number.

***Rocket to the Moon!. by Don Brown. 2019. Amulet Books. 132 pages. Reading level: Grades 3-7.***

July 20, 1969, Neil Armstrong took "one small step for man, one giant leap for mankind" when the Apollo 11 landed on the moon. But it wasn't just one man who got us to the moon. Rocket to the Moon! explores the people and technology that made the moon landing possible. Instead of examining one person's life, it focuses on the moon landing itself, showing the events leading up to it and how it changed the world. The book takes readers through the history of rocket building: from ancient Chinese rockets, to "bombs bursting in air" during the War of 1812, to Russia's Sputnik program, to the moon landing. Beautifully illustrated and well-researched, this book is the perfect resource for curious readers and tomorrow's scientists. It includes a timeline of space travel, a bibliography, and an index.

Available at:

- Clay Battelle and Clinton libraries under C 629.45 BRO call number.
- Cheat Area Public Library under GR C 629.45 BRO call number.
- Libby as ebook.

***Super Slime.* edited by Sophie Parkes. 2019. DK Publishing. 64 pages. Reading level: Grades 1-4.**

Provides step-by-step instructions for over twelve science experiments, demonstrating why water turns to ice, what causes static electricity, and how to create bubbles.

Available at:



- Clay Battelle and Cheat libraries under C 745.59 SUP call number.