



Expand Your Horizons

VIRTUAL PROGRAMS for Youths



Recommended Books

Adolph, Jonathan. **Mason Jar Science: 40 Slimy, Squishy, Super-cool Experiments.** (2018). Children learn to create miniature clouds, tiny tornadoes, small stalactites, great goo and super slime using household items. The book demonstrates how to convert a jar into a lava lamp, a water prism, a balloon barometer and a compass. Each fun-packed project offers small-scale ways to illustrate the big-picture principles of chemistry, botany, biology and physics. (J NON FICTION Q 2 ADO)

Arnold, Nick. **Get a Reaction: Experiments with Mixtures, Solutions & Reactions.** (2019). Explore the science behind mixtures, solutions, and reactions and learn how to make your own exciting experiments. Get hands-on with science and create your own laboratory at home! (J EASY Q 2 ARN)

Chatteron, Crystal. **Awesome Science Experiments for Kids.** (2018). Readers will learn the essentials of the scientific method using fun, hands-on experiments. Activities will show children how to hypothesize, experiment and record their findings. Projects include Fizzy Rockets, Magnet-Powered Cars and a Pencil Sundial. Children will learn to build, design and think critically while getting inspired to interact with the world around them. (J NON FICTION Q 2 CHA)

Dziengel, Ana. **STEAM Play and Learn.** (2018). This book provides 20 fun step-by-step preschool projects about science, technology, engineering, art and math. (J NON FICTION Q 2 DZI)

Heinecke, Liz Lee. **Kitchen Science for Kids: 26 Family-Friendly Experiments for Fun around the House.** (2018). Kitchen Science for Kids highlights how to conduct physics, chemistry and biology experiments with tools as well as ingredients found in a kitchen. The book demonstrates experiments that are safe and exciting for children of all ages. (J NON FICTION Q 2 HEI)

Heinecke, Liz Lee. **Outdoor Science Lab for Kids: 52 Family-Friendly Experiments for the Yard, Garden, Playground and Park.** (2016). This book makes digging into the natural sciences fun and easy as readers explore the world around them. (J NON FICTION Q 2 HEI)

Heinecke, Liz Lee. **STEAM Lab for Kids: 52 Creative Hands-on Projects Using Science, Technology, Engineering, Art, and Math.** (2018). The projects in STEAM Lab for Kids are designed to demonstrate that math and science are found in art. Young engineers and artists will find inspiration in these 52 art-forward labs. (J NON FICTION Q 2 HEI)

Martineau, Susan. **Science Experiments at Home: Discover the Science in Everyday Life.** (2018). Explore the science in everyday life with these simple, step-by-step experiments. The book highlights activities that take a complex scientific concept and make it easy for kids to understand. In the kitchen, bathroom, the garden or the park, children will discover the science around them. (J NON FICTION Q 2 MAR)

Priddy, Brenda. **Mason Jar Scientist: 30 Jarring STEAM-Based Projects.** (2018). The book shows hands-on experiments using Mason jars to demonstrate scientific principles that are practical. (J NON FICTION Q 2 PRI)

Zovinka, Edward P. **Real Chemistry Experiments: 40 Exciting STEAM Activities for Kids.** (2019). This book highlights 40 fascinating chemistry experiments. Each project includes a hypothesis, step-by-step instructions and a required list of materials. Children will learn effective strategies to record their observations. (J NON FICTION QD ZOV)