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Backpack Explorer: On the Nature Trail
What Should Danny Do?
The Lorax
Gotta Go! Gotta Go!
Real Chemistry Experiments
Circuit Clay

Naked Eggs and Flying Potatoes

A hilarious, irreverent book about doing your own thing Meet Iggy Peck—creative, independent, and not afraid to express himself! In the spirit of David Shannon's No, David and Rosemary Wells's Noisy Nora, Iggy Peck will delight readers looking for irreverent, inspired fun. Iggy has one passion: building. His parents are proud of his fabulous creations, though they're sometimes surprised by his materials—who could forget the tower he built of dirty diapers? When his second-grade teacher declares her dislike of architecture, Iggy faces a challenge. He loves building too much to give it up! With Andrea Beaty's irresistible rhyming text and David Roberts's puckish illustrations, this book will charm creative kids everywhere, and amuse their sometimes bewildered parents. Also from the powerhouse author-illustrator team of Iggy Peck, Architect, is Rosie Revere, Engineer, a charming, witty picture book about believing in yourself and pursuing your passion. Ada Twist, Scientist, the companion picture book featuring the next kid from Iggy Peck's class, is available in September 2016.

Mobile Learning Applications in Early Childhood Education

Jump-start curiosity with this take-along field guide for children ages 4 and up. From worms, birds, and spiders to trees, flowers, and clouds, young explorers learn what to look and listen for wherever they are — whether in a nature preserve, an urban park, or a suburban backyard. Seek-and-find lists, on-the-trail art projects, and discovery games get kids engaged in hands-on learning about nature, and a real pull-out magnifying glass helps them get a close-up glimpse of leaf veins, seed pods, and tiny insects. Filled with activities, checklists, and stickers, this interactive nature guide belongs in every kid's backpack.

Chicka Chicka Boom Boom

A collection of easy and entertaining home science experiments from the creator of the popular "Mentos soda geyser" viral video.

STEM, Grade 5

A lion, a dog, and a tiger balance apples on their heads.

The Curious Kid's Science Book

Provides an introduction of Thomas Edison, one of the world's greatest inventors. This book helps inspire kids to be inventors and scientists. Children try Edison's experiments themselves with activities such as making a puppet dance using static electricity, manufacturing a switch for electric current, constructing a telegraph machine, and more.

Awesome Science Experiments for Kids

"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"--

Nya's Long Walk

A little bird discovers why the lion's tail changes color each day.

STEAM Play & Learn

"Packed with facts and photos, Zoology for Kids is a vibrant introduction to zoology that also provides inspiration for career options and activities to help children further explore and apply what they have learned." —Liesl Pimentel, manager of education and formal programs, Phoenix Zoo Zoology for Kids invites young animal lovers to discover the animal kingdom through clear, entertaining information and anecdotes and hands-on activities. Part 1 introduces the science of zoology, discussing animals' forms, functions, and behaviors as well as the history behind zoos and aquariums. Kids bake edible animal cells, play a dolphin-echolocation game, and design an exhibit. Part 2 offers an insider's look at how zoologists apply their knowledge every day. Kids peek into the world of zookeepers and aquarists, veterinarians, wildlife researchers, and conservationists. They "train" their friends, mold a tiger's jawbone, and perform field research in their own backyard. Animal enthusiasts come away with new knowledge, a healthy respect for the animal kingdom, and the idea that they can pursue animal-related careers and make a difference to preserve and protect the natural world. Josh Hestermann is a marine-mammal keeper and trainer at the Brookfield Zoo in Illinois. Bethanie Hestermann is a freelance writer and contributing writer and editor at large at Connected World magazine. They live in Brookfield, Illinois. Martin and Chris Kratt, the Kratt Brothers, are the creators and cohosts of the PBS Kids series Wild Kratts, Kratts Creatures, and Zoboomafoo.

Pezzettino

Easy, Creative and Fun Things to Keep Your Children Entertained and Happy Never again will you hear the all-too-common call of, "I'm bored!" with this kid-pleaser for many ages. Whether your kid is 3, 5 or 12 years old, there are hundreds of fun, educational and engaging things to do in this book. When they ask to watch television, you'll have the perfect solution. *101 Kids Activities That Are the Bestest, Funnest Ever!* has time-tested, exciting activities to keep your children laughing and learning for the whole day, every day. Holly Homer and Rachel Miller are the women behind the wildly popular site KidsActivitiesBlog.com, which gets more than 2 million hits a month and has more than 71,000 fans on Facebook and 100,000 followers on Pinterest. One-of-a-kind activities--never before seen on the blog--range from making edible play dough and homemade sidewalk chalk to playing shoebox pinball and creating a balance beam obstacle course. And with outdoor and indoor activities and tips for adjusting according to your child's age, this book will provide hours and hours of never-ending fun with your family. This parenting life raft is also the perfect way to make sure caregivers are spending quality-time with your little ones.

101 Kids Activities That Are the Bestest, Funnest Ever!

Celebrate Earth Day with Dr. Seuss and the Lorax in this classic picture book about protecting the environment! I am the Lorax. I speak for the trees. Dr. Seuss's beloved story teaches kids to speak up and stand up for those who can't. With a recycling-friendly "Go Green" message, *The Lorax* allows young readers to experience the beauty of the Truffula Trees and the danger of taking our earth for granted, all in a story that is timely, playful and hopeful. The book's final pages teach us that just one small seed, or one small child, can make a difference. Printed on recycled paper, this book is the perfect gift for Earth Day and for any child—or child at heart—who is interested in recycling, advocacy and the environment, or just loves nature and playing outside. Unless someone like you cares a whole awful lot, nothing is going to get better. It's not. "Pretty much all the stuff you need to know is in Dr. Seuss." –President Barack Obama

Thomas Edison for Kids

What happens if you water plants with juice? Where can you find bacteria in your house? Is slug slime as strong as a glue stick? How would your child find the answers to these questions? In *The Curious Kid's Science Book*, your child will learn to design his or her own science investigations to determine the answers! Children will learn to ask their own scientific questions, discover value in failed experiments, and — most importantly — have a blast with science. The 100+ hands-on activities in the book use household items to playfully teach important science, technology, engineering, and math skills. Each creative activity includes age-appropriate explanations and (when possible) real life applications of the concepts covered. Adding science to your at-home schedule will make a positive impact on your child's learning. Just one experiment a week will help build children's confidence and excitement about the sciences, boost success in the classroom, and give them the tools to design and execute their own science fair projects.

The Everything Kids' Science Experiments Book

We want our preschoolers to learn and have fun - Enjoy the ultimate collection of kid-tested fun that can be ready in minutes! Autumn understands the pressure to create fun activities that don't take a lot of time to prepare; these low-prep activities are proven to spark a child's interest and curiosity while preparing them for kindergarten.

The Brilliant Deep

Offers instructions on building machines with LEGOs that can spin, swing, pivot, roll, lift, and drop.

The Ultimate Kindergarten Prep Guide

Danny is a Superhero-in-Training learning about his most important superpower of all, "The Power to Choose." Written in a "Choose Your Own Story" style, your child will have a blast trying to reach all nine endings. And in the process, they will learn some of life's most important lessons.

The Lion and the Little Red Bird

Fun, STEAM-based experiments and activities to do at home—all within a mason jar! Scientific learning doesn't have to stop when kids hop off the school bus. With *The Mason Jar Scientist*, you and your kids can have a blast together while learning about fascinating scientific topics! This book provides dozens of practical, hands-on experiments illustrating scientific principles—that can all be done within a mason jar. Each experiment also includes discussion questions and great ideas for STEAM-based extension activities. You and your child will learn about: Clouds Why the sky is blue Tornadoes The greenhouse effect Light refraction Sound vibrations The solar system Biomes And much more! All you need for each activity is a mason jar, some household ingredients, and a desire to learn! Packed with colorful photos, clear, information, and easy-to-follow instructions, *The Mason Jar Scientist* is the perfect book to get kids excited about science and to spend some quality time together.

Nature Did It First

Science has never been so easy--or so much fun! With *The Everything Kids' Science Experiments Book*, all you need to do is gather a few household items and you can recreate dozens of mind-blowing, kid-tested science experiments. High school science teacher Tom Robinson shows you how to expand your scientific horizons--from biology to chemistry to physics to outer space. You'll discover answers to questions like: Is it possible to blow up a balloon without actually blowing into it? What is inside coins? Can a magnet ever be "turned off"? Do toilets always flush in the same direction? Can a swimming pool be cleaned with just the breath of one person? You won't want to wait for a rainy day or your school's science fair to test these cool experiments for yourself!

The Biggest Pumpkin Ever

Mobile technologies combined with an interdisciplinary approach to knowledge and organization of learning experiences that are meaningful to children could create a creative and interactive learning environment different from that of traditional teaching. Making good use of mobile learning with appropriate devices will increase the learning motivations of the students and help them bring about positive performance. Mobile Learning Applications in Early Childhood Education is a collection of innovative research on the methods and applications of mobile learning techniques and strategies within diversified teaching settings. While highlighting topics including computational thinking, ubiquitous learning, and social development, this book is ideally designed for researchers, teachers, parents, curriculum developers, instructional designers, academicians, students, and practitioners seeking current research on the application of mobile technology within child education.

STEM Programming for All Ages

Gotta go to Mexico! Although she does not know why or how, a small creepy-crawly bug is certain that she must make her way to Mexico.

Engibear's Bridge

55 playful experiments that encourage tinkering, curiosity, and creative thinking—hands-on activities that explore art, science, and more. For children of all ages, from toddlers to teenagers! The creator of the highly popular creativity site for kids, Tinkerlab.com, now delivers dozens of engaging, kid-tested, and easy-to-implement projects that will help parents and teachers bring out the natural tinkerer in every kid—even babies, toddlers, and preschoolers. The creative experiments shared in this book foster curiosity, promote creative and critical thinking, and encourage tinkering—mindsets that are important to children growing up in a world that values independent thinking. In addition to offering a host of activities that parents and teachers can put to use right away, this book also includes a buffet of recipes (magic potions, different kinds of play dough, silly putty, and homemade butter) and a detailed list of materials to include in the art pantry.

Ten Apples Up on Top!

Full STEAM ahead!-21st-century chemistry for kids Chemistry for kids can be so much fun! Real Chemistry Experiments has 40 exciting and engaging experiments with a real-life STEAM (Science, Technology, Engineering, Art, Math) connection for kids. Become a better problem-solver, inventor, and innovator with these fascinating chemistry experiments. Each one has a clear purpose or question that's being asked, step-by-step instructions, a list of materials you'll need, questions to help you record your observations, and more. By the time you're through, you'll have chemistry for kids down to a science! This book of chemistry for kids includes: Easy-to-find materials-From tap water and paper towels, to popsicle sticks and dish soap, the materials needed for these experiments are quick and easy to find. Real-life science-Learn the real chemistry behind how and why each experiment works, like why water and oil don't mix in Oily Oceans, how geodes form in Eggshell

Geodes, and more. Chemistry basics-Get tons of info about chemistry and what it is, from the scientific method and the Periodic Table, to atoms and the five main areas of study. Imagine all the things you can learn, create, and discover in this colorful book about chemistry for kids-the sky's the limit!

Teaching STEM in the Preschool Classroom

"Part playful poetry, part nonfiction information, children are introduced to the unique structures of seven plants and animals and the extraordinary innovations they have inspired."--

Iggy Peck, Architect

School is starting in the forest, but Chester Raccoon does not want to go. To help ease Chester's fears, Mrs. Raccoon shares a family secret called the Kissing Hand to give him the reassurance of her love any time his world feels a little scary. Since its first publication in 1993, this heartwarming book has become a children's classic that has touched the lives of millions of children and their parents, especially at times of separation, whether starting school, entering daycare, or going to camp. It is widely used by kindergarten teachers on the first day of school. Stickers at the back will help children and their parents keep their Kissing Hand alive.

How to STEM

Little Pezzettino's worry that he may be only a small piece of somebody else precipitates a journey of discovery.

Five Little Pumpkins

STEM Programming will show new and exciting examples of how libraries are implementing STEM education. It is a guide on how to start or improve your own STEM programming with little or no budget, even if you're not a scientist or mathematician.

The Mason Jar Scientist

Applying the Standards: STEM for fifth grade offers 64 pages of highly engaging STEM tasks. It includes a problem-solving rubric and guided pages that walk students through completing each step of the STEM process. Fifth graders will complete tasks in areas such as the human body, furniture design, pendulum physics, environmental building, and friction. The Applying the Standards: STEM series emphasizes creativity and innovation in science, technology, engineering, and math. This is a series of six 64-page books for students in kindergarten through grade 5. A variety of topics are covered with 30 engaging tasks, and a culminating reflection question for each task encourages students to think about and apply their newfound learning and knowledge.

Outdoor Science Lab for Kids

Build background knowledge, teach beginning science concepts and have fun at the same time! This handy resource is chockful of creative ideas for exploring 3 important strands of the early childhood science curriculum: Weather, the Ocean and Gardens.

Tinkerlab

In a rhythmic alphabet chant, all the letters race one another up the coconut tree.

Preschool Science (eBook)

The children at Munnagong Primary School decide on a dinosaur design for their new bridge. It's a big job so Engilina, the town's chief engineer, asks her friends, Engibear and Bearbot, for some help. Follow the team as they work through the year to create a roar-inspiring attraction.

Over on the Farm

A lifetime of communication skills starts here—the ultimate writing workbook for kids 3 to 5 Set kids up to succeed in school with a learn to write for kids guide that teaches them letters, shapes, and numbers--and makes it fun. My First Learn-to-Write Workbook introduces your early writer to proper pen control, steady line tracing, new words, and more with dozens of exercises that will engage their minds and boost their reading and writing comprehension skills. This learn to write for kids book includes: Build writing muscles—During these activities, kids will use their pencil to follow paths and draw different shapes, so they build their fine motor skills. Fun and colorful—This learn to write for kids workbook brings the skills to life, with helpful (and silly) pictures and illustrations. Practice makes perfect—While this book isn't wipeable or erasable, you can keep the writing going with almost 80 full pages worth of practice space. Get your little one on the right path to reading and writing with this exciting learn to write for kids workbook.

Making and Tinkering with STEM

Learn physics, chemistry and biology in your own backyard! At-home science provides an environment for freedom, creativity and invention that is not always possible in a school setting. In your own backyard, it's simple, inexpensive, and fun to whip up a number of amazing science experiments using the great outdoors. Science can be found all around in nature. Backyard Science Lab for Kids offers 52 fun science activities for families to do together. The experiments can be used as individual projects, for parties, or as educational activities for groups. Backyard Science Lab for Kids will tempt families to learn about physics, chemistry and biology in their backyards. Learn scientific survival skills and even take some experiments to the playground! Many of the experiments are safe enough for toddlers and exciting enough for older kids, so families can discover the joy of science together.

Lego Chain Reactions

Learning becomes fun with this book about animals on the farm. In *Over on the Farm*, amazing artwork and rhyming text sung to the tune of "Over in the meadow" will inspire children in classrooms and at home to appreciate the world around us! Welcome to the farm, where pigs roll, goats nibble, horses gallop, hens peck, and turkeys strut! Count, clap, and sing along to the classic tune of "Over in the Meadow" while learning about life on a classic farm. This book is one of Marianne's own favorites, and is a delight for children and adults alike. Cathy's illustrations are charming. Kids love counting books, too! And as usual, Marianne offers up a potpourri of valuable information about farm animals and suggestions for child-friendly activities. Backmatter Includes: Further information about mountains and the animals in this book! Music and song lyrics to "Over on the Farm" sung to the tune "Over in the Meadow"!

Zoology for Kids

STEAM Play & Learn is an introduction to STEAM topics (science, technology, engineering, arts, and math) for preschoolers with fun, interactive, easy-to-follow, step-by-step activities.

The Kissing Hand

Two mice, a village mouse and a field mouse, unwittingly care for the same pumpkin and have different plans for it until they finally meet.

My First Learn to Write Workbook

Come roll with the pumpkins and their friends as they get into some spirited fun!

Backpack Explorer: On the Nature Trail

Explore STEM concepts through making and tinkering!

What Should Danny Do?

In this picture book companion to the bestseller *A Long Walk to Water*, a young South Sudanese girl goes on a journey that requires determination, persistence, and compassion. Young Nya takes little sister Akeer along on the two-hour walk to fetch water for the family. But Akeer becomes too ill to walk, and Nya faces the impossible: her sister and the full water vessel together are too heavy to carry. As she struggles, she discovers that if she manages to take one step, then another, she can reach home and Mama's care. Bold, impressionistic paintings by Caldecott and Coretta Scott King Honor winner Brian Pinkney evoke the dry, barren landscape and the tenderness between the two sisters. An afterword discusses the process of providing clean water in South Sudan to reduce waterborne illness.

The Lorax

This book is designed to build educators' confidence and competence so they can bring STEM to life with young children. The authors encourage pre-K teachers to

discover the value of engaging preschoolers in scientific inquiry, technological explorations, engineering challenges, and math experiences based on learning trajectories. They explain the big ideas in STEM, emphasizing teaching strategies that support these activities (such as language-rich STEM interactions), and describe ways to integrate concepts across disciplines. The text features research-based resources, examples of field-tested activities, and highlights from the classroom. Drawing from a professional development model that was developed with funding from the National Science Foundation, this book is an essential resource for anyone who wants to support preschool children to be STEM thinkers and doers. Book Features: An introduction to current thinking in early STEM teaching and learning. Best practice strategies for including STEM in the pre-K classroom. An in-depth look at the key concepts in each STEM area, including short activity descriptions, illustrations, and explanations. Resources and models co-developed with educators and used in successful professional development. Testimonials from educators explaining how the model connects with their curriculum.

Gotta Go! Gotta Go!

The Brilliant Deep is the proud recipient of the ALA Notable Children's Books Award, the NSTA-CBC Best STEM Trade Books Award, the Junior Library Guild Selection and the ILA Teacher's Choices. All it takes is one: one coral gamete to start a colony in the ocean, one person to make a difference in the world, one idea to help us heal the earth. The ongoing conservation efforts to save and rebuild the world's coral reefs—with hammer and glue, and grafts of newly grown coral—are the living legacy of environmental scientist Ken Nedimyer, founder of the Coral Restoration Foundation. In telling the story of this sea conservation pioneer and marine life protector, Kate Messner and Matthew Forsythe create a stunning tribute to the wonders of nature and the power of human hope—a power even the smallest readers can access in their quest to aid our extraordinary planet. Recommended by experts for children who are reading independently and transitioning to longer books, The Brilliant Deep is perfect for the following reading categories: • Books for Kids Ages 5-9 • Children's Books for Kindergarten - 3rd Grade • Nonfiction Science Studies Education • Summer Reading

Real Chemistry Experiments

Explore the science behind electricity by making clay creations that glow! Use our special conductive and insulating clay to make a sculpture, add LEDs, attach a battery pack, and watch your clay circuit light up. Illustrated step-by-step instructions teach readers how to build 15 projects, including a robot, a UFO, a dragon, and much more. It's the easiest way for young scientists to learn about circuits! Comes with: 52-page book 4 colors of conductive clay (50 g each) 1 color insulating clay (50 g) 20 LEDs 4 AA battery pack (batteries not included) 50+ paper punch-outs to decorate your sculptures

Circuit Clay

During the past few years, groups like the President's Council of Advisors on

Science and Technology, Center for Education have been placing great emphasis on the significance of STEM (science, technology, engineering, and math) education. In brief, the US is seen as falling behind the rest of the world in science and technology education. In response, the curricula have been revised in many educational institutions and school districts across the country. It is clear that for STEM to be successful, other community organizations, most particularly libraries, need to be closely involved in the process. Library staff realize the importance of getting involved in STEM education, but many have difficulty finding comprehensive information that will help them plan and successfully implement STEM direction in their organization. This book is designed to meet that need. It is timely and relevant. *How to STEM: Science, Technology, Engineering, and Math Education in Libraries* is by and for libraries who are involved in contributing efforts into advancing these subjects. It is organized in 9 parts including funding, grant writing, community partnerships, outreach, research, and examples of specific programming activities. Authors are drawn from the professional staffs of educational institutions, libraries, and non-profit organizations such as science museums. The book contains eight parts, each emphasizing a different aspect of how to succeed with STEM. Part 1 emphasizes how hands-on activities that are both fun and educational can be used to further STEM awareness. Parts 2 and 3 contain chapters on the uniting of STEM with Information Literacy. Innovative collection development ideas are discussed in Part 4 and Part 5 focuses on research and publishing. Outreach is the theme of Part 6 and the programs described in these chapters offer an array of ways to connect with students of all ages. The final section of *How to STEM: Science, Technology, Engineering, and Math Education in Libraries* addresses the funding of these programs. Librarians of all types will be pleased to discover easy-to-implement suggestions for collaborative efforts, many rich and diverse programming ideas, strategies for improving reference services and library instruction to speakers of English as a second language, marketing and promotional tips designed to welcome multicultural patrons into the library, and much more.

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