

---

# Science For Pre K

---

Science Education during Early Childhood  
Science and Engineering in Preschool Through Elementary Grades: The Brilliance of Children and the Strengths of Educators  
Starting with Science  
Exploring Math & Science in Preschool  
Launching Learners in Science, PreK-5  
The Curious Kid's Science Book  
Teach Smarter  
Me and My Place in Space  
Dirt  
What Is Science?  
The Secret Science Project That Almost Ate the School  
Janice VanCleave's Teaching the Fun of Science to Young Learners  
Macmillan/McGraw-Hill Science, Grade Pre-K, Science Package  
Who Sank the Boat?  
Hands-on Science and Math  
DK Workbooks: Science, Pre-K  
180 Days of Science for Kindergarten  
Mouse Paint  
TinkerActive Workbooks: Pre-K Science  
Science Experiments Coloring Book for Kids  
Big Book of Science Workbook: Scholastic Early Learners (Workbook)  
101 Kids Activities That Are the Bestest, Funnest Ever!  
The 101 Coolest Simple Science Experiments  
Mudpies to Magnets  
Real Science in Preschool  
The Umbrella  
A Head Start on Science  
Teaching STEM in the Preschool Classroom  
Bartholomew and the Oobleck  
Famous Scientists and What They Did : Pre-K Science Series  
What Is a Scientist?  
Science Is Simple  
If You Give a Mouse a Cookie 25th Anniversary Edition  
Plants Are Living Things  
Bubbles, Rainbows, and Worms  
Science Learning in the Early Years  
Science Through the Year  
Preschool Pathways to Science  
Science K and Up

---

## CLARK SHELDON

---

### **Science Education during Early Childhood**

Millbrook Press

If a hungry little traveler shows up at your house, you might want to give him a cookie. If you give him a cookie, he's going to ask for a glass of milk. He'll want to look in a mirror to make sure he doesn't have a milk mustache, and then he'll ask for a pair of scissors to give himself a trim.... The consequences of giving a cookie to this energetic mouse run the young host ragged, but young readers will come away smiling at the antics that tumble like dominoes through the pages of this delightful picture book.

### **Science and Engineering in Preschool Through Elementary Grades: The Brilliance of Children and the Strengths of Educators**

Stenhouse Pub

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.

### **Starting with Science**

Houghton Mifflin Harcourt

Join Bartholomew Cubbins in Dr. Seuss's Caldecott Honor-winning picture book about a king's magical mishap! Bored with rain, sunshine, fog, and snow, King Derwin of Didd summons his royal magicians to create something new and exciting to fall from the sky. What he gets is a storm of sticky green goo called Oobleck—which soon wreaks havoc all over his kingdom! But with the assistance of the wise page boy Bartholomew, the king (along with young readers) learns that the simplest words can sometimes solve the stickiest problems.

### Exploring Math & Science in Preschool

Teacher Created Resources

All the good things that you enjoy today are products of the brilliant minds of scientists. These are the people who did a lot of research to discover more about the world, and from there, create technologies that we enjoy today. This book includes the best achievements, laid out in a fun and easy-to-understand manner. Grab a copy today!

### Launching Learners in Science, PreK-5

Gryphon House, Inc.

Young children arrive at school with unrestrained curiosity and wonder about the world. A fact-based, hands-on activity approach to teaching science, however, is not enough to help them deepen their scientific thinking or discoveries. In *Starting with Science: Strategies for Introducing Young Children to Inquiry*, Marcia Talhelm Edson explores the big ideas surrounding inquiry-based science; she helps teachers thoughtfully plan for and

implement a conceptual approach to teaching and learning science so students can engage in observation, questioning, predictions, collaboration, data collection, and a deeper understanding of topics important to their lives. Through numerous examples from classroom discussions, teacher commentary, and children's work samples, *Starting with Science* provides practical suggestions and models for beginning teachers as well as those who are fine-tuning their practice. Four key questions underlie the book: What is inquiry-based science? How can pre-K, kindergarten, and primary-grade teachers incorporate inquiry-based science when faced with limited science background, insufficient time, and lack of resources? What roles do the children, the teacher, and the environment play in an inquiry-based science program? What instructional strategies are effective in implementing inquiry-based science? In answering these questions, Edson provides a framework from which teachers can devise their own in-depth inquiry investigations based on district requirements and students' own interests. She also integrates literacy opportunities as well as explicit suggestions for effective assessment of inquiry-based science. *Starting with Science* shows us what inquiry looks like in an early childhood classroom and introduces strategies teachers can employ to confidently and competently teach science to students in grades pre-K-2. Children will gain skills for problem solving and an attitude about learning that they will carry with them not just to the next grade but throughout their lives.

**The Curious Kid's Science Book** John Wiley & Sons  
Simple text and full-color photographs

depict children engaged in various activities that make up the scientific process.

Teach Smarter Macmillan

Because the activities have been field-tested by more than a thousand Head Start teachers over 10 years, you'll find this collection unusually easy to use in a variety of settings, including elementary schools, pre-K programs, and day care. Each activity ends with a reproducible Family Science Connection—in both English and Spanish.

**Me and My Place in Space** Teacher Created Materials

*Science Is Simple* encourages children to experience our world fully, and gives teachers learning objectives, items for discovery, related books and follow-up activities. This comprehensive resource will help you teach simple science concepts - simply!

Kumon Publishing North America

*TinkerActive Workbooks: Pre-K*

*ScienceOdd Dot*

*Dirt* Harper Collins

To ensure they're meeting early learning guidelines for science, preschool educators need fun, age-appropriate, and research-based ways to teach young children about scientific concepts. That's just what they'll get with this hands-on guidebook. The basis for the PBS KIDS show *Sid the Science Kid*, this innovative teaching resource helps children ages 3 - 5 investigate their everyday world and develop the basics of scientific thinking, skills they'll apply across subject areas when they enter school. A fun and engaging way to introduce science to young children, *PrePS* is a must-have because it: is based on the domain-specific approach to cognitive development; provides age-appropriate introduction to key science practices; makes the most of children's natural

curiosity; encourages collaboration between teachers and children; enhances any curriculum; and taps teachers' creativity. This reader-friendly guide gives educators the guidance they need to work PrePS into their existing program; sample schedules designed for the preschool classroom; and detailed sample activities they can do right away or use as templates for their own creative lessons. And with the book's assessment guidelines, teachers will know PrePS is having a measurable effect on the classroom environment and student learning.

**What Is Science?** Gryphon House Incorporated

Students, heed this little rhyme: When it's science project time, Do not make goop, or glop, or grime, And never mess with mutant slime.

The Secret Science Project That Almost Ate the School Teachers College Press 180 Days of Science is a fun and effective daily practice workbook designed to help students explore the three strands of science: life, physical, and earth and space. This easy-to-use kindergarten workbook is great for at-home learning or in the classroom. The engaging standards-based activities cover grade-level skills with easy to follow instructions and an answer key to quickly assess student understanding. Students will explore a new topic each week building content knowledge, analyzing data, developing questions, planning solutions, and communicating results. Watch as students are motivated to learn scientific practices with these quick learning activities. Parents appreciate the teacher-approved activity books that keep their child engaged and learning. Great for homeschooling, to reinforce learning at school, or prevent learning loss over summer. Teachers rely

on the daily practice workbooks to save them valuable time. The ready to implement activities are perfect for daily morning review or homework. The activities can also be used for intervention skill building to address learning gaps. Aligns to Next Generation Science Standards (NGSS).

**Janice VanCleave's Teaching the Fun of Science to Young Learners**

Gryphon House, Inc.

Starting in early childhood, children are capable of learning sophisticated science and engineering concepts and engage in disciplinary practices. They are deeply curious about the world around them and eager to investigate the many questions they have about their environment. Educators can develop learning environments that support the development and demonstration of proficiencies in science and engineering, including making connections across the contexts of learning, which can help children see their ideas, interests, and practices as meaningful not just for school, but also in their lives.

Unfortunately, in many preschool and elementary schools science gets relatively little attention compared to English language arts and mathematics. In addition, many early childhood and elementary teachers do not have extensive grounding in science and engineering content. Science and Engineering in Preschool through Elementary Grades provides evidence-based guidance on effective approaches to preschool through elementary science and engineering instruction that supports the success of all students. This report evaluates the state of the evidence on learning experiences prior to school; promising instructional approaches and what is needed for implementation to include teacher

professional development, curriculum, and instructional materials; and the policies and practices at all levels that constrain or facilitate efforts to enhance preschool through elementary science and engineering. Building a solid foundation in science and engineering in the elementary grades sets the stage for later success, both by sustaining and enhancing students' natural enthusiasm for science and engineering and by establishing the knowledge and skills they need to approach the more challenging topics introduced in later grades. Through evidence-based guidance on effective approaches to preschool through elementary science and engineering instruction, this report will help teachers to support the success of all students.

Macmillan/McGraw-Hill Science, Grade Pre-K, Science Package Speedy Publishing LLC

Provides instructions for simple experiments, both indoors and outdoors, using readily available materials, that demonstrate scientific facts about the natural world, the human body, and the basic laws of physics.

Who Sank the Boat? High/Scope Foundation

Explains the properties and functions of plants in our world.

Hands-on Science and Math Crabtree Publishing Company

224 hands-on science experiments and ideas with step-by-step instructions delight and amaze children as they experience nature, the human body, electricity, floating and sinking, and more. Children participate in projects such as making a tornado in a jar, creating constellations and growing crystals. Categorized by curriculum areas, each activity includes a list of vocabulary words and easily accessible

materials.

DK Workbooks: Science, Pre-K Macmillan

The book's 75 lessons and reproducible activities touch on all areas of science and provide the key to a world of science magic and mystery. While kids will have fun doing the activities and learning to love science, they are also being encouraged to develop other skills, including reading, writing, math, and art. The book is designed to help young students catch the "science bug" and find the answers for themselves to these and other questions: Why do cats have whiskers? How does a caterpillar change into a butterfly? Why do elephants have such large ears? How does a grasshopper grow? Why is the skin on my elbows so wrinkled? Why does food taste different when I have a cold? How can we make perfume from flower petals? Why does my shadow change during the day?

180 Days of Science for Kindergarten ReadHowYouWant.com

This complete kit contains all of the resources needed for introducing science concepts to the preschool learner! Provides a variety of hands-on experiences for conceptual development Includes circle time and activity center suggestions Features a flexible lesson plan that supports a variety of learning environments Kit includes: Teacher Edition, Flipbook, Big Science Readers (2 volumes), Posters, Science Songs on Audio CD, and Photo Sorting Cards.

Mouse Paint National Geographic Books Children's learning and understanding of science during their pre-school years has been a neglected topic in the education literature—something this volume aims to redress. Paradigmatic notions of science education, with their focus on biologically governed development and age-specific accession to scientific

concepts, have perpetuated this state of affairs. This book offers a very different perspective, however. It has its roots in the work of cultural-historical activity theorists, who, since Vygotsky, have assumed that any higher cognitive function existed in and as a social relation first. Accepting this precept removes any lower limit we may deem appropriate on children's cognitive engagement with science-related concepts. The authors describe and analyze the ways in which children aged from one to five grapple with scientific concepts, and also suggest ways in which pre-service and in-service teachers can be prepared to teach in

ways that support children's development in cultural and historical contexts. In doing so, the book affirms the value of cultural-historical activity theory as an appropriate framework for analyzing preschool children's participation in science learning experiences, and shows that that the theory provides an appropriate framework for understanding learning, as well as for planning and conducting training for pre-school teachers.

*TinkerActive Workbooks: Pre-K Science*  
Corwin Press

Discusses the nature, uses, and importance of soil and the many forms of life that it supports.

Related with Science For Pre K:

[© Science For Pre K Student Exploration Food Chain Gizmo Answer Key](#)

[© Science For Pre K Student Exploration Earthquakes 1 Recording Station Answer Key](#)

[© Science For Pre K Student Exploration Balancing Chemical Equations Answer Key](#)