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# Pre K Science Center

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Understanding by Design  
Teach Smarter  
Bubbles, Rainbows, and Worms  
Science Activities A to Z  
The Emerging Language and Literacy Curriculum Book  
Cactus Hotel  
Taking Science to School  
Click, Clack, Moo  
Living Or Nonliving?  
Inspiring Spaces for Young Children  
More Than ABC's  
A Head Start on Science  
Science Tools  
Choice Time  
Rosie Revere, Engineer  
Literacy Beginnings  
Exploring Water with Young Children  
Connect4learning  
Young Investigators  
Exploring Math & Science in Preschool  
Becoming Young Thinkers  
Cribsheet  
Take It to Your Seat: Science Centers, Prek - Kindergarten Teacher Resource  
Bartholomew and the Oobleck  
Hands-on Science and Math  
Language in Cognitive Development  
Learning Centers in Kindergarten, Grade K  
Early Childhood Environment Rating Scale (ECERS-3)  
STEM Play  
The Engaging Museum  
Science and Engineering in Preschool Through Elementary Grades: The Brilliance of Children and the Strengths of Educators  
Driven by Data  
Jessica's X-ray  
Creative Curriculum  
Planning for the Very Young  
Start Young!  
Funds of Knowledge  
Ada Twist, Scientist  
The Very Hungry Caterpillar

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## GIANCARLO MILES

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### **Understanding by Design** Heinemann Educational Books

Offers a practical guide for improving schools dramatically that will enable all students from all backgrounds to achieve at high levels. Includes assessment forms, an index, and a DVD.

**Teach Smarter** RH Childrens Books  
Perfect for ages three to six, this fun-filled introduction to science features easy-to-follow instructions & easy-to-find materials that will help any child have fun experimenting.

*Bubbles, Rainbows, and Worms* Carson-Dellosa Publishing

When Farmer Brown's cows find a typewriter in the barn they start making demands, and go on strike when the farmer refuses to give them what they want.

*Science Activities A to Z* Firefly Books  
This book discusses the role of language as a cognitive and communicative tool in a child's early development.

**The Emerging Language and Literacy Curriculum Book** National Academies Press

Early Readers Learn About What Living Things Need As Well As Which Things Are Nonliving In Nature.

**Cactus Hotel** ASCD

"Describes the life cycle of the giant saguaro cactus, with an emphasis on its role as a home for other desert dwellers."--Title page verso.

*Taking Science to School* Teachers College Press

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.

*Click, Clack, Moo* Gryphon House Incorporated

Learning centers are a motivating way for students to practice important skills. The activities in *Take It to Your Seat Science Centers* reinforce science skills with full-color centers that contain directions, task cards, and record forms.

**Living Or Nonliving?** Gryphon House Incorporated

The all-time classic picture book, from generation to generation, sold somewhere in the world every 30 seconds! Have you shared it with a child or grandchild in your life? For the first time, Eric Carle's *The Very Hungry Caterpillar* is now available in e-book format, perfect for storytime anywhere. As an added bonus, it includes read-aloud audio of Eric Carle reading his classic story. This fine audio production pairs perfectly with the classic story, and it makes for a fantastic new way to encounter this famous, famished caterpillar.

*Inspiring Spaces for Young Children* Teachers College Press

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.

**More Than ABC's** Teachers College Press

Keep students engaged with Learning Centers in Kindergarten. This 176-page book includes suggestions for how to set up learning centers, arrange the room with appropriate furniture, determine the number of students at each center, move in and between centers, develop activities, and find materials. It supports the Four-Blocks(R) Literacy Model and includes ideas for center time and month-by-month activities for eight centers.

*A Head Start on Science* Evan-Moor Educational Publishers

"Play and language are both important learning tools for the prekindergarten child. Through play and language, they learn about their world and about themselves. Play and language are also the most important tools for early literacy learning. Think of the young child who takes a memo pad and marker around to family members, 'taking orders' for dinner. Like all emergent readers and writers, this child makes no distinction between play and literacy -- both involve curiosity, excitement, learning, and discovery. In *Literacy Beginnings*, Gay Su Pinnell and Irene Fountas bring their characteristically rich, comprehensive, and practical insights to the frontier of early literacy. They show you how to tap into young children's curiosity to introduce them to the world of literacy in joyful, engaging ways. Based on their many experiences in real prekindergarten classrooms they demonstrate how to: create a classroom community that is play-based, but that also prepares children for the literary-rich world in which they live, promote constructive learning through inquiry, recognize the language and literacy behaviors and understandings that are appropriate instructional goals for preschoolers, use powerful and playful

ways to guide children to learn about letters, sounds, and words, [and] support emergent readers and writers through an array of literacy activities"--Back cover.

Delmar Pub

Teach SmarterJohn Wiley & Sons

Science Tools Connect4learning

The concept of "funds of knowledge" is based on a simple premise: people are competent and have knowledge, and their life experiences have given them that knowledge. The claim in this book is that first-hand research experiences with families allow one to document this competence and knowledge, and that such engagement provides many possibilities for positive pedagogical actions. Drawing from both Vygotskian and neo-sociocultural perspectives in designing a methodology that views the everyday practices of language and action as constructing knowledge, the funds of knowledge approach facilitates a systematic and powerful way to represent communities in terms of the resources they possess and how to harness them for classroom teaching. This book accomplishes three objectives: It gives readers the basic methodology and techniques followed in the contributors' funds of knowledge research; it extends the boundaries of what these researchers have done; and it explores the applications to classroom practice that can result from teachers knowing the communities in which they work. In a time when national educational discourses focus on system reform and wholesale replicability across school sites, this book offers a counter-perspective stating that instruction must be linked to students' lives, and that details of effective pedagogy should be linked to local histories and community contexts. This approach should not be

confused with parent participation programs, although that is often a fortuitous consequence of the work described. It is also not an attempt to teach parents "how to do school" although that could certainly be an outcome if the parents so desired. Instead, the funds of knowledge approach attempts to accomplish something that may be even more challenging: to alter the perceptions of working-class or poor communities by viewing their households primarily in terms of their strengths and resources, their defining pedagogical characteristics. Funds of Knowledge: Theorizing Practices in Households, Communities, and Classrooms is a critically important volume for all teachers and teachers-to-be, and for researchers and graduate students of language, culture, and education.

**Choice Time** Macmillan

Discover the science behind exploring and understanding water with young children.

*Rosie Revere, Engineer* Abrams

A #1 New York Times Bestseller A Wall Street Journal Bestseller A USA Today Bestseller The creators of the New York Times bestselling picture books Rosie Revere, Engineer and Iggy Peck, Architect are back with a story about the power of curiosity in the hands of a child who is on a mission to use science to understand her world. Ada Twist, Scientist, from powerhouse team Andrea Beaty and David Roberts, is a celebration of STEM, perseverance, and passion. Like her classmates, builder Iggy and inventor Rosie, scientist Ada, a character of color, has a boundless imagination and has always been hopelessly curious. Why are there pointy things stuck to a rose? Why are there hairs growing inside your nose? When

her house fills with a horrific, toe-curling smell, Ada knows it's up to her to find the source. What would you do with a problem like this? Not afraid of failure, Ada embarks on a fact-finding mission and conducts scientific experiments, all in the name of discovery. But, this time, her experiments lead to even more stink and get her into trouble! Inspired by real-life makers such as Ada Lovelace and Marie Curie, *Ada Twist, Scientist* champions girl power and women scientists, and brings welcome diversity to picture books about girls in science. Touching on themes of never giving up and problem solving, Ada comes to learn that her questions might not always lead to answers, but rather to more questions. She may never find the source of the stink, but with a supportive family and the space to figure it out, she'll be able to feed her curiosity in the ways a young scientist should. Iggy Peck and Rosie Revere have earned their places among the most beloved children's characters, and they have inspired countless kids and adults to follow their dreams and passions. Now in her own charming and witty picture book, *determined Ada Twist*, with her boundless curiosity for science and love of the question "Why?," is destined to join these two favorites. The book is the perfect tool to remind both young girls and women that they have the intelligence and perseverance to achieve their dreams.

### **Literacy Beginnings** Penguin

This very practical book guides museums on how to create the highest quality experience possible for their visitors. Creating an environment that supports visitor engagement with collections means examining every stage of the visit, from the initial impetus to go to a particular institution,

to front-of-house management, interpretive approach and qualitative analysis afterwards. This holistic approach will be immensely helpful to museums in meeting the needs and expectations of visitors and building their audience. This book features: includes chapter introductions and discussion sections supporting case studies to show how ideas are put into practice a lavish selection of tables, figures and plates to support and illustrate the discussion boxes showing ideas, models and planning suggestions to guide development an up-to-date bibliography of landmark research. The *Engaging Museum* offers a set of principles that can be adapted to any museum in any location and will be a valuable resource for institutions of every shape and size, as well as a vital addition to the reading lists of museum studies students.

### *Exploring Water with Young Children* Teach Smarter

The long-anticipated new version of the internationally recognized Early Childhood Environment Rating Scale®, ECERS-3, focuses on the full range of needs of preschool- and kindergarten-aged children. This widely used, comprehensive assessment tool measures both environmental provisions and teacher-child interactions that affect the broad developmental needs of young children, including: Cognitive Social-emotional Physical Health and safety ECERS-3 also includes additional Items assessing developmentally appropriate literacy and math activities. Designed for preschool, kindergarten, and child care classrooms serving children 3 through 5 years of age, ECERS-3: Provides a smooth transition for those already using ECERS-R. Emphasizes the role of the teacher in creating an environment

conducive to developmental gains. Is designed to predict child outcomes more accurately and with greater precision. Provides a stronger method of distinguishing between good and truly excellent programs. Offers a complete training program with ongoing support available at the Environment Rating Scales Institute (ERSI) website ([www.ersi.info](http://www.ersi.info)). ECERS-3 is appropriate for state and district-wide QRIS and continuous improvement; program evaluation by directors and supervisors; teacher self-evaluation; monitoring by agency staff; and teacher education. The established reliability and long term evidence of validity of the ERS family of instruments make this new version of ECERS particularly useful for RTTT-ELC accountability and research. Suitable for use in inclusive and culturally diverse programs, ECERS-3 subscales evaluate: Space and Furnishings Personal Care Routines Language and Literacy Learning Activities Interaction Program Structure

*Connect4learning* Cambridge University Press

From the author of *Expecting Better* and *The Family Firm*, an economist's guide to the early years of parenting. "Both refreshing and useful. With so many parenting theories driving us all a bit batty, this is the type of book that we need to help calm things down." —LA Times "The book is jampacked with information, but it's also a delightful read because Oster is such a good writer." —NPR With *Expecting Better*, award-winning economist Emily Oster spotted a need in the pregnancy market for advice that gave women the information they needed to make the best decision for their own pregnancies. By digging into the data, Oster found that much of the conventional

pregnancy wisdom was wrong. In *Cribsheet*, she now tackles an even greater challenge: decision-making in the early years of parenting. As any new parent knows, there is an abundance of often-conflicting advice hurled at you from doctors, family, friends, and strangers on the internet. From the earliest days, parents get the message that they must make certain choices around feeding, sleep, and schedule or all will be lost. There's a rule—or three—for everything. But the benefits of these choices can be overstated, and the trade-offs can be profound. How do you make your own best decision? Armed with the data, Oster finds that the conventional wisdom doesn't always hold up. She debunks myths around breastfeeding (not a panacea), sleep training (not so bad!), potty training (wait until they're ready or possibly bribe with M&Ms), language acquisition (early talkers aren't necessarily geniuses), and many other topics. She also shows parents how to think through freighted questions like if and how to go back to work, how to think about toddler discipline, and how to have a relationship and parent at the same time. Economics is the science of decision-making, and *Cribsheet* is a thinking parent's guide to the chaos and frequent misinformation of the early years. Emily Oster is a trained expert—and mom of two—who can empower us to make better, less fraught decisions—and stay sane in the years before preschool.

**Young Investigators** Routledge

The classroom environment is an essential component for maximizing learning experiences for young children. "Inspiring Spaces for Young Children" invites teachers to enhance children's educational environment in a beautiful

way by emphasizing aesthetic environmental qualities that are often overlooked in early childhood classrooms, such as nature, color, furnishings, textures, displays, lighting, and focal points. Step-by-step instructions and lush photographs take educators through the process of transforming ordinary classrooms into

creative, beautiful learning spaces, providing children with an environment where they can learn and grow. With easy-to-implement ideas that incorporate nature, children's artwork, and everyday classroom materials, the photographs and ideas in this book promote creativity, learning, and simple beauty.

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