

How Babies Think The Science Of Childhood

Weave high-level questions into your teaching practices.

'Fascinating. . . This engaging book explores just how multiple languages are acquired and sorted out by the brain. . . Costa's work derives from a great fund of knowledge, considerable curiosity and solidly scientific spirit' Philip Hensher Spectator The definitive study of bilingualism and the human brain from a leading neuropsychologist Over half of the world's population is bilingual and yet few of us understand how this extraordinary, complex ability really works. How do two languages co-exist in the same brain? What are the advantages and challenges of being bilingual? How do we learn - and forget - a language? In the first study of its kind, leading expert Albert Costa shares twenty years of experience to explore the science of language. Looking at studies and examples from Canada to France to South Korea, *The Bilingual Brain* investigates the significant impact of bilingualism on daily life from infancy to old age. It reveals, among other things, how babies differentiate between two languages just hours after birth, how accent affects the way in which we perceive others and even why bilinguals are better at conflict resolution. Drawing on cutting-edge neuro-linguistic research from his own laboratory in Barcelona as well from centres across the world, and his own bilingual family, Costa offers an absorbing examination of the intricacies and impact of an extraordinary skill. Highly engaging and hugely informative, *The Bilingual Brain* leaves us all with a sense of wonder at how language works. Translated by John W. Schwieter "We're like a new toy ... or a new energy source, and they're just playing with us, experimenting. Working out what we can do. What they can do with us." Mikki and the others live at "the farm", an advanced learning facility, a think-tank for a bunch of young people with very high IQs. But what is really going on at the farm? And what about the five much younger children known as the Babies, frail as butterflies? Brian Caswell's new novel explores the power of love . and presents readers with an intriguing jigsaw puzzle of suspense. SHORTLISTED CBC Children's Book of the Year Awards (1993) Babies who love science can be anything! Move over Wonder Woman and Superman--here come Aerospace Engineer and Particle Physicist! Baby loves to explore the world of science! What's next for Baby after learning about physics, engineering, computers, and the natural world? Becoming a scientist of course! In this fun look at several scientific careers, parents and children can talk about different science fields and the everyday heroes that work in them. Beautiful, visually stimulating illustrations complement age-appropriate language to encourage baby's sense of wonder. Parents and caregivers may learn a thing or two as well.

A reproductive biologist explains the forty weeks of a human pregnancy, placing the biology of motherhood in an evolutionary, sociological, and historical context for the layperson.

Big, brainy science for the littlest listeners Accurate enough to satisfy an expert, yet simple enough for baby, this book explores the basics of particle physics and chemistry – quarks, protons, neutrons, atoms and molecules – and ties it all to baby's world. Beautiful, visually stimulating illustrations complement age-appropriate language to encourage baby's sense of wonder. Parents and caregivers may learn a thing or two, as well! With tongue firmly in cheek, the *Baby Loves Science* series introduces highly intellectual science concepts to the littlest learners.

Today's children will forge careers that look nothing like those their parents and grandparents knew. Even the definitions of "career" and "job" are changing as people create new businesses and services. Although these changes are well underway, our education system in the U.S. lags behind and still subscribes to the idea that content is king. This exclusive focus on content is reflected in what we test, how we teach, and even the toys we offer our children. Employers want to hire excellent communicators, critical thinkers, and innovators—in short, they want brilliant people. So what can we do, as parents, to help our children be brilliant and successful? Golinkoff and Hirsh-Pasek provide a science-based framework for how we should be teaching children in and outside of school. Using fun and engaging examples, the authors introduce the 6Cs—collaboration, communication, content, critical thinking, creative innovation, and confidence—along with tips to optimize children's development in each area. These skills will make up the straight-A report card for success in the 21st century. Book jacket. Help your future genius become the smartest baby in the room! Written by an expert, *Newtonian Physics for Babies* is a colorfully simple introduction to Newton's laws of motion. Babies (and grownups!) will learn all about mass, acceleration, the force of gravity, and more. With a tongue-in-cheek approach that adults will love, this installment of the Baby University board book series is the perfect way to introduce basic concepts to even the youngest scientists. After all, it's never too early to become a physicist!

Ages 0 to 3 years *Quantum Physics for Babies* by Chris Ferrie is a colourfully simple introduction to the principle that gives quantum physics its name. Baby will find out that energy is "quantized" and the weird world of atoms never comes to a standstill. It is never too early to become a quantum physicist! This is the first in a series of books designed to stimulate your baby and introduce them to the world of science. Also coming in May are: ? *Newtonian Physics for Babies* ? *General Relativity for Babies* ? *Rocket Science for Babies*

Now updated! The new edition of this best-selling guide uses science to tackle some of the most important decisions facing new parents—from sleep training and vaccinations to breastfeeding and baby food. Is cosleeping safe? How important is breastfeeding? Are food allergies preventable? Should we be worried about the aluminum in vaccines? Searching for answers to these tough parenting questions can yield a deluge of conflicting advice. In this revised and expanded edition of *The Science of Mom*, Alice Callahan, a science writer whose work appears in the *New York Times* and the *Washington Post*, recognizes that families must make their own decisions and gives parents the tools to evaluate the evidence for themselves. Sharing the latest scientific research on raising healthy babies, she covers topics like the microbiome, attachment, vaccine safety, pacifiers, allergies, increasing breast milk production, and choosing an infant formula.

Learning begins in the first days of life. Scientists are now discovering how young children develop emotionally and intellectually, and are beginning to realize that from birth babies already know a staggering amount about the world around them. In the first book of its kind for a popular audience, three leading US scientists draw on twenty-five years of research in philosophy, psychology, computer science, linguistics and neuroscience to reveal what babies know and how they learn it.

Children are already learning at birth, and they develop and learn at a rapid pace in

their early years. This provides a critical foundation for lifelong progress, and the adults who provide for the care and the education of young children bear a great responsibility for their health, development, and learning. Despite the fact that they share the same objective - to nurture young children and secure their future success - the various practitioners who contribute to the care and the education of children from birth through age 8 are not acknowledged as a workforce unified by the common knowledge and competencies needed to do their jobs well. Transforming the Workforce for Children Birth Through Age 8 explores the science of child development, particularly looking at implications for the professionals who work with children. This report examines the current capacities and practices of the workforce, the settings in which they work, the policies and infrastructure that set qualifications and provide professional learning, and the government agencies and other funders who support and oversee these systems. This book then makes recommendations to improve the quality of professional practice and the practice environment for care and education professionals. These detailed recommendations create a blueprint for action that builds on a unifying foundation of child development and early learning, shared knowledge and competencies for care and education professionals, and principles for effective professional learning. Young children thrive and learn best when they have secure, positive relationships with adults who are knowledgeable about how to support their development and learning and are responsive to their individual progress. Transforming the Workforce for Children Birth Through Age 8 offers guidance on system changes to improve the quality of professional practice, specific actions to improve professional learning systems and workforce development, and research to continue to build the knowledge base in ways that will directly advance and inform future actions. The recommendations of this book provide an opportunity to improve the quality of the care and the education that children receive, and ultimately improve outcomes for children.

Babies can be a joy—and hard work. Now, they can also be a 50-in-1 science project kit! This fascinating and hands-on guide shows you how to re-create landmark scientific studies on cognitive, motor, language, and behavioral development—using your own bundle of joy as the research subject. Simple, engaging, and fun for both baby and parent, each project sheds light on how your baby is acquiring new skills—everything from recognizing faces, voices, and shapes to understanding new words, learning to walk, and even distinguishing between right and wrong. Whether your little research subject is a newborn, a few months old, or a toddler, these simple, surprising projects will help you see the world through your baby's eyes—and discover ways to strengthen newly acquired skills during your everyday interactions.

A candid, feminist, and personal deep dive into the science and culture of pregnancy and motherhood Like most first-time mothers, Angela Garbes was filled with questions when she became pregnant. What exactly is a placenta and how does it function? How does a body go into labor? Why is breast best? Is wine totally off-limits? But as she soon discovered, it's not easy to find satisfying answers. Your obstetrician will cautiously quote statistics; online sources will scare you with conflicting and often inaccurate data; and even the most trusted books will offer information with a heavy dose of judgment. To educate herself, the food and culture writer embarked on an intensive journey of exploration, diving into the scientific mysteries and cultural attitudes that surround motherhood to find answers to questions that had only previously been

given in the form of advice about what women ought to do—rather than allowing them the freedom to choose the right path for themselves. In *Like a Mother*, Garbes offers a rigorously researched and compelling look at the physiology, biology, and psychology of pregnancy and motherhood, informed by in-depth reportage and personal experience. With the curiosity of a journalist, the perspective of a feminist, and the intimacy and urgency of a mother, she explores the emerging science behind the pressing questions women have about everything from miscarriage to complicated labors to postpartum changes. The result is a visceral, full-frontal look at what's really happening during those nine life-altering months, and why women deserve access to better care, support, and information. Infused with humor and born out of awe, appreciation, and understanding of the female body and its strength, *Like a Mother* debunks common myths and dated assumptions, offering guidance and camaraderie to women navigating one of the biggest and most profound changes in their lives.

"Instead of trusting kids with choices . . . many parents insist on micromanaging everything from homework to friendships. For these parents, Stixrud and Johnson have a simple message: Stop." --NPR "This humane, thoughtful book turns the latest brain science into valuable practical advice for parents." --Paul Tough, *New York Times* bestselling author of *How Children Succeed* A few years ago, Bill Stixrud and Ned Johnson started noticing the same problem from different angles: Even high-performing kids were coming to them acutely stressed and lacking motivation. Many complained they had no control over their lives. Some stumbled in high school or hit college and unraveled. Bill is a clinical neuropsychologist who helps kids gripped by anxiety or struggling to learn. Ned is a motivational coach who runs an elite tutoring service. Together they discovered that the best antidote to stress is to give kids more of a sense of control over their lives. But this doesn't mean giving up your authority as a parent. In this groundbreaking book they reveal how you can actively help your child to sculpt a brain that is resilient, and ready to take on new challenges. *The Self-Driven Child* offers a combination of cutting-edge brain science, the latest discoveries in behavioral therapy, and case studies drawn from the thousands of kids and teens Bill and Ned have helped over the years to teach you how to set your child on the real road to success. As parents, we can only drive our kids so far. At some point, they will have to take the wheel and map out their own path. But there is a lot you can do before then to help them tackle the road ahead with resilience and imagination.

First released in the Spring of 1999, *How People Learn* has been expanded to show how the theories and insights from the original book can translate into actions and practice, now making a real connection between classroom activities and learning behavior. This edition includes far-reaching suggestions for research that could increase the impact that classroom teaching has on actual learning. Like the original edition, this book offers exciting new research about the mind and the brain that provides answers to a number of compelling questions. When do infants begin to learn? How do experts learn and how is this different from non-experts? What can teachers and schools do—with curricula, classroom settings, and teaching methods—to help children learn most effectively? New evidence from many branches of science has significantly added to our understanding of what it means to know, from the neural processes that occur during learning to the influence of culture on what people see and absorb. *How People Learn* examines these findings and their implications for what we

teach, how we teach it, and how we assess what our children learn. The book uses exemplary teaching to illustrate how approaches based on what we now know result in in-depth learning. This new knowledge calls into question concepts and practices firmly entrenched in our current education system. Topics include: How learning actually changes the physical structure of the brain. How existing knowledge affects what people notice and how they learn. What the thought processes of experts tell us about how to teach. The amazing learning potential of infants. The relationship of classroom learning and everyday settings of community and workplace. Learning needs and opportunities for teachers. A realistic look at the role of technology in education. Clearly babies come into the world remarkably receptive to its wonders. Their alertness to sights, sounds, and even abstract concepts makes them inquisitive explorers--and learners--every waking minute. Well before formal schooling begins, children's early experiences lay the foundations for their later social behavior, emotional regulation, and literacy. Yet, for a variety of reasons, far too little attention is given to the quality of these crucial years. Outmoded theories, outdated facts, and undersized budgets all play a part in the uneven quality of early childhood programs throughout our country. What will it take to provide better early education and care for our children between the ages of two and five? *Eager to Learn* explores this crucial question, synthesizing the newest research findings on how young children learn and the impact of early learning. Key discoveries in how young children learn are reviewed in language accessible to parents as well as educators: findings about the interplay of biology and environment, variations in learning among individuals and children from different social and economic groups, and the importance of health, safety, nutrition and interpersonal warmth to early learning. Perhaps most significant, the book documents how very early in life learning really begins. Valuable conclusions and recommendations are presented in the areas of the teacher-child relationship, the organization and content of curriculum, meeting the needs of those children most at risk of school failure, teacher preparation, assessment of teaching and learning, and more. The book discusses: Evidence for competing theories, models, and approaches in the field and a hard look at some day-to-day practices and activities generally used in preschool. The role of the teacher, the importance of peer interactions, and other relationships in the child's life. Learning needs of minority children, children with disabilities, and other special groups. Approaches to assessing young children's learning for the purposes of policy decisions, diagnosis of educational difficulties, and instructional planning. Preparation and continuing development of teachers. *Eager to Learn* presents a comprehensive, coherent picture of early childhood learning, along with a clear path toward improving this important stage of life for all children.

"Alison Gopnik, a ... developmental psychologist, [examines] the paradoxes of parenthood from a scientific perspective"--

Fans of Chris Ferrie's *ABCs of Biology*, *ABCs of Space*, and *Quantum Physics for Babies* will love this introduction to aerospace engineering for babies and toddlers! Help your future genius become the smartest baby in the room! It only takes a small spark to ignite a child's mind. Written by an expert, *Rocket Science for Babies* is a colorfully simple introduction to aerospace engineering. Babies (and grownups!) will learn about the basics of how lift and thrust make things fly. With a tongue-in-cheek approach that adults will love, this installment of the *Baby University* board book series is the perfect way to introduce basic concepts to even the youngest scientists. After all, it's never too early to become a rocket scientist! If you're looking

for engineer board books, infant science books, or more Baby University board books to surprise your little one, look no further! Rocket Science for Babies offers fun early learning for your little scientist!

How does our body move? How do we smile, wave hello, or stomp in puddles? It is all thanks to the brain's special helper: The Neuron. Dive into this educational picture book with your baby, toddler, or young child and discover the answers to their science and biology questions about moving and how we do it. This colorful and educational picture book will help build your child's vocabulary and kickstart early learning. Curious kids, budding scientists, and future doctors, nurses, and medical professionals are sure to become captivated by the neuron as they learn all about its different parts as well as how it helps the brain deliver messages to our body. There is no concept too abstract or advanced for tots that think a lot!

Fans of Chris Ferrie's ABCs of Economics, ABCs of Space, and Organic Chemistry for Babies will love this introduction to neural networks for babies and toddlers! Help your future genius become the smartest baby in the room! It only takes a small spark to ignite a child's mind. Neural Networks for Babies by Chris Ferrie is a colorfully simple introduction to the study of how machines and computing systems are created in a way that was inspired by the biological neural networks in animal and human brains. With scientific and mathematical information from an expert, this installment of the Baby University board book series is the perfect book for enlightening the next generation of geniuses. After all, it's never too early to become a scientist! If you're looking for programming for babies, coding for babies, or more Baby University board books to surprise your little one, look no further! Neural Networks for Babies offers fun early learning for your little scientist!

This text articulates and defends the 'theory theory' of cognitive and semantic development, the idea that infants and young children, like scientists, learn about the world by forming and revising theories.

Why cracking the code of human conception took centuries of wild theories, misogynist blunders, and ludicrous mistakes Throughout most of human history, babies were surprises. People knew the basics: men and women had sex, and sometimes babies followed. But beyond that the origins of life were a colossal mystery. The Seeds of Life is the remarkable and rollicking story of how a series of blundering geniuses and brilliant amateurs struggled for two centuries to discover where, exactly, babies come from. Taking a page from investigative thrillers, acclaimed science writer Edward Dolnick looks to these early scientists as if they were detectives hot on the trail of a bedeviling and urgent mystery. These strange searchers included an Italian surgeon using shark teeth to prove that female reproductive organs were not 'failed' male genitalia, and a Catholic priest who designed ingenious miniature pants to prove that frogs required semen to fertilize their eggs. A witty and rousing history of science, The Seeds of Life presents our greatest scientists struggling-against their perceptions, their religious beliefs, and their deep-seated prejudices-to uncover how and where we come from. "Based on groundbreaking research that has the power to change the lives of countless children--and the adults who love them." --Susan Cain, author of Quiet: The Power of Introverts. A book that offers hope and a pathway to success for parents, teachers, psychologists, and child development experts coping with difficult children. In Tom Boyce's extraordinary new book, he explores the "dandelion" child (hardy, resilient, healthy), able to survive and flourish under most circumstances, and the "orchid" child (sensitive, susceptible, fragile), who, given the right support, can thrive as much as, if not more than, other children. Boyce writes of his pathfinding research as a developmental pediatrician working with troubled children in child-development research for almost four decades, and explores his major discovery that reveals how genetic make-up and environment shape behavior. He writes that certain variant genes can increase a person's susceptibility to depression, anxiety, attention deficit hyperactivity disorder, and antisocial, sociopathic, or violent behaviors. But rather than

seeing this "risk" gene as a liability, Boyce, through his daring research, has recast the way we think of human frailty, and has shown that while these "bad" genes can create problems, they can also, in the right setting and the right environment, result in producing children who not only do better than before but far exceed their peers. Orchid children, Boyce makes clear, are not failed dandelions; they are a different category of child, with special sensitivities and strengths, and need to be nurtured and taught in special ways. And in *The Orchid and the Dandelion*, Boyce shows us how to understand these children for their unique sensibilities, their considerable challenges, their remarkable gifts.

In the vein of *Goodnight Moon*, say "goodnight" to your lab in this picture book parody of a beloved classic. Perfect for scientists of all ages! It's been a long day at the lab for this scientist. Now it's time to say goodnight! Goodnight laser Goodnight notebook Goodnight picture of Einstein with a stern look While poking fun at the clutter and chaos of lab life, scientists of all ages will appreciate ending their day with this sweet parody. They'll be rested and ready to return to the world of research in the morning! This scientific parody book in the style of *Goodnight Moon* is a delight for little lab girls and guys. *Goodnight Lab* is written by Chris Ferrie, author of *Quantum Physics for Babies* and other books in the *Baby University* series. Parents and kids both will love the accurate descriptions of all the quirks of grownup laboratories. Readers who love the *Lab Girl* book or *Nerdy Babies* will adore this humorous and educational book for kids. This book is the perfect solution if you're looking for science baby gifts and physics gifts for curious kids.

A must-have alphabet board book set from the #1 Science author for kids, Chris Ferrie! With simple, colorful explanations of complex STEM topics, this is the perfect baby or toddler gift for your future genius! Introduce babies and toddlers to basic concepts for each letter of the alphabet with this four-book set: *ABCs of Space* - Explore astronomy, space, and our solar system from A to Z! *ABCs of Mathematics*- Learn about addition, equations, and more with this perfect primer for preschool math! *ABCs of Physics*- Explain essential physics words like atom, quantum, Einstein, and Newton! *ABCs of Science*- Spark curiosity in young scientists by exploring concepts like amoebas, electrons, vaccines, and more! The *Baby University ABCs* set offers four educational board books for toddlers written by an expert. Each book offers three levels of learning to encourage little scientists to explore and dive deeper into each scientific concept. Its approach to early learning is beloved by kids and grownups! This baby board book set is the perfect way to introduce basic scientific concepts and STEM to even the youngest scientist and makes a wonderful newborn baby gift! If you're looking for other STEM-minded baby toys, books, and gifts, check out the full *Baby University* series, including *Quantum Physics for Babies*, *Organic Chemistry for Babies*, and *8 Little Planets*.

A look inside the minds of young children shows how we can better nurture their abilities to think and grow. Adults easily recognize children's imagination at work as they play. Yet most of us know little about what really goes on inside their heads as they encounter the problems and complexities of the world around them. In *The Intellectual Lives of Children*, Susan Engel brings together an extraordinary body of research to explain how toddlers, preschoolers, and elementary-aged children think. By understanding the science behind how children observe their world, explain new phenomena, and solve problems, parents and teachers will be better equipped to guide the next generation to become perceptive and insightful thinkers. The activities that engross kids can seem frivolous, but they can teach us a great deal about cognitive development. A young girl's bug collection reveals important lessons about how children ask questions and organize information. Watching a young boy scoop mud can illuminate the process of invention. When a child ponders the mystery of death, we witness how children build ideas. But adults shouldn't just stand around watching. When parents are creative, it can rub off on their children. Engel shows how parents and teachers can stimulate children's curiosity by presenting them with mysteries to solve. Unfortunately, in our homes

and schools, we too often train children to behave rather than nurture their rich and active minds. This focus is misguided, since it is with their first inquiries and inventions—and the adult world's response to them—that children lay the foundation for a lifetime of learning and good thinking. Engel offers readers a scientifically based approach that will encourage children's intellectual growth and set them on the path of inquiry, invention, and ideas.

What is science for a child? How do children learn about science and how to do science? Drawing on a vast array of work from neuroscience to classroom observation, *Taking Science to School* provides a comprehensive picture of what we know about teaching and learning science from kindergarten through eighth grade. By looking at a broad range of questions, this book provides a basic foundation for guiding science teaching and supporting students in their learning. *Taking Science to School* answers such questions as: When do children begin to learn about science? Are there critical stages in a child's development of such scientific concepts as mass or animate objects? What role does nonschool learning play in children's knowledge of science? How can science education capitalize on children's natural curiosity? What are the best tasks for books, lectures, and hands-on learning? How can teachers be taught to teach science? The book also provides a detailed examination of how we know what we know about children's learning of science--about the role of research and evidence. This book will be an essential resource for everyone involved in K-8 science education--teachers, principals, boards of education, teacher education providers and accreditors, education researchers, federal education agencies, and state and federal policy makers. It will also be a useful guide for parents and others interested in how children learn.

How Babies Think The Science of Childhood

Fans of Chris Ferrie's *Quantum Physics for Babies*, *ABCs of Science*, and *Organic Chemistry for Babies* will love this introduction to evolutionary biology for babies and toddlers! Help your future genius become the smartest baby in the room! It only takes a small spark to ignite a child's mind. Written by an expert, *Evolution for Babies* is a colorfully simple introduction to evolutionary biology. Babies (and grownups!) will learn how organisms mutate, evolve, and survive. Co-written by Cara Florance, who has a PhD in Biochemistry and a BS in Chemistry with work experience in astrobiology and radiation decontamination. With a tongue-in-cheek approach that adults will love, this installment of the Baby University board book series is the perfect way to introduce basic concepts to even the youngest scientists. After all, it's never too early to become a scientist! If you're looking for the perfect science baby gifts, science for babies, or evolution for kids, look no further! *Evolution for Babies* offers fun early learning for your little scientist!

Discover the best baby sleep method—gentle, science-backed, and inspired by the latest Nobel Prize-winning research—that shows you how to get your baby to sleep through the night naturally. Sleep—or the lack of it—is one of the most crucial issues for new parents. Newborn babies typically wake every two to three hours, and there's nothing bleary-eyed, exhausted parents want more than a night of uninterrupted sleep. But while there's plenty of advice out there, there is nothing that's based on the latest cutting-edge research about sleep—until now. In *How Babies Sleep*, Sofia Axelrod, PhD—neuroscientist, sleep consultant, and mother of two—introduces the first baby sleep method that is truly rooted in the science of sleep. After having her first child, Axelrod realized that the typical baby sleep advice conflicted with the actual science of sleep,

including the findings from her mentor's Nobel Prize-winning sleep lab. She developed her transformative method based on the latest discoveries about our body's circadian clock and how it is disturbed by light and other external stimuli. After seeing incredible results with her own babies, she has since counseled countless families in her groundbreaking method—which works with babies' needs and helps little ones learn to self-soothe, fall asleep more easily, and stay asleep through the night. You'll discover helpful tips that work, and learn: why using a red lightbulb (instead of a regular one) in the nursery at night can minimize wakings; why the age-old advice "don't wake a sleeping baby" isn't true; how to create a healthy routine; how to sleep train gently with minimal crying (under two minutes); and so much more in this revolutionary and effective book that will help both you and your baby enjoy a peaceful night's sleep. New parents receive abundance of often-conflicting advice from doctors, family, friends, and the internet. How do you make your own best decision? Oster debunks myths around breastfeeding, sleep training, potty training, language acquisition, and many other topics. She 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. -- adapted from jacket

How we raise young children is one of today's most highly personalized and sharply politicized issues, in part because each of us can claim some level of "expertise." The debate has intensified as discoveries about our development-in the womb and in the first months and years-have reached the popular media. How can we use our burgeoning knowledge to assure the well-being of all young children, for their own sake as well as for the sake of our nation? Drawing from new findings, this book presents important conclusions about nature-versus-nurture, the impact of being born into a working family, the effect of politics on programs for children, the costs and benefits of intervention, and other issues. The committee issues a series of challenges to decision makers regarding the quality of child care, issues of racial and ethnic diversity, the integration of children's cognitive and emotional development, and more. Authoritative yet accessible, *From Neurons to Neighborhoods* presents the evidence about "brain wiring" and how kids learn to speak, think, and regulate their behavior. It examines the effect of the climate-family, child care, community-within which the child grows.

Why is a forgery worth so much less than an original work of art? What's so funny about someone slipping on a banana peel? Why, as Freud once asked, is a man willing to kiss a woman passionately, but not use her toothbrush? And how many times should you baptize a two-headed twin? Descartes' Baby answers such questions, questions we may have never thought to ask about such uniquely human traits as art, humour, faith, disgust, and morality. In this thought-provoking and fascinating account of human nature, psychologist Paul Bloom contends that we all see the world in terms of bodies and souls. Even babies have a rich understanding of both the physical and social worlds. They expect objects to obey principles of physics, and they're startled when things disappear or defy gravity. They can read the emotions of adults and respond with their own feelings of anger, sympathy and joy. This perspective remains with us throughout our lives. Using his own researches and new ideas from philosophy, evolutionary biology, aesthetics, theology, and neuroscience, Bloom shows how this way to making sense of reality can explain what makes us human. The myriad ways that our childhood views of the world undergo development throughout our lives and

profoundly influences our thoughts, feelings, and actions is the subject of this richly rewarding book.

For most of us, having a baby is the most profound, intense, and fascinating experience of our lives. Now scientists and philosophers are starting to appreciate babies, too. The last decade has witnessed a revolution in our understanding of infants and young children. Scientists used to believe that babies were irrational, and that their thinking and experience were limited. Recently, they have discovered that babies learn more, create more, care more, and experience more than we could ever have imagined. And there is good reason to believe that babies are actually smarter, more thoughtful, and even more conscious than adults. This new science holds answers to some of the deepest and oldest questions about what it means to be human. A new baby's captivated gaze at her mother's face lays the foundations for love and morality. A toddler's unstoppable explorations of his playpen hold the key to scientific discovery. A three-year-old's wild make-believe explains how we can imagine the future, write novels, and invent new technologies. Alison Gopnik - a leading psychologist and philosopher, as well as a mother - explains the groundbreaking new psychological, neuroscientific, and philosophical developments in our understanding of very young children, transforming our understanding of how babies see the world, and in turn promoting a deeper appreciation for the role of parents.

"I absolutely loved this book, both as a parent and as a nerd." —Jessica Lahey, author of *The Gift of Failure* As every parent knows, kids are surprisingly clever negotiators. But how can we avoid those all-too-familiar wails of "That's not fair!" and "You can't make me!"? In *The Game Theorist's Guide to Parenting*, the award-winning journalist and father of five Paul Raeburn and the game theorist Kevin Zollman pair up to highlight tactics from the worlds of economics and business that can help parents break the endless cycle of quarrels and ineffective solutions. Raeburn and Zollman show that some of the same strategies successfully applied to big business deals and politics—such as the Prisoner's Dilemma and the Ultimatum Game—can be used to solve such titanic, age-old parenting problems as dividing up toys, keeping the peace on long car rides, and sticking to homework routines. Raeburn and Zollman open each chapter with a common parenting dilemma. Then they show how carefully concocted schemes involving bargains and fair incentives can save the day. Through smart case studies of game theory in action, Raeburn and Zollman reveal how parents and children devise strategies, where those strategies go wrong, and what we can do to help raise happy and savvy kids while keeping the rest of the family happy too. Delightfully witty, refreshingly irreverent, and just a bit Machiavellian, *The Game Theorist's Guide to Parenting* looks past the fads to offer advice you can put into action today.

Big, brainy science for the littlest listeners. Accurate enough to satisfy an expert, yet simple enough for baby, this clever board book showcases the use of logic, sequence, and patterns to solve problems. Can Baby think like a coder to fix her train? Beautiful, visually stimulating illustrations complement age-appropriate language to encourage baby's sense of wonder. Parents and caregivers may learn a thing or two, as well! Author's Note: The goal of the *Baby Loves Science* books is to introduce STEM topics in a developmentally appropriate way. As a precursor to learning programming languages and syntax, *Baby Loves Coding*

presents the concepts of sequencing, problem solving, cause and effect, and thinking step-by-step. Practicing these skills early creates a solid foundation for reading, writing, math and eventually, programming.

A timely and simple explanation of the science behind pandemics, from the #1 science author for kids *Pandemics for Babies* is an engaging, basic introduction for youngsters (and grownups!) to the complex concepts like transmission, quarantine, and social distancing. Full of scientific information and written by experts, this newest installment of the Baby University board book series is perfect for enlightening the next generation of geniuses about the science of pandemics. After all, it's never too early to become a scientist!

Chris Ferrie fans will love this perfect educational art book for babies and toddlers featuring essential STEAM words from the #1 Science author! Babies and toddlers are curious and ready to learn! Introduce them to art words that go beyond the basics with this first 100 words baby board book. From painting to photography, from music to theater, from literature to history and more, this is the bright and simple introduction to the smart words every budding scholar needs! Surprise your special little one at birthdays, baby showers, holidays, and beyond with the amazing opportunity to discover with this baby and toddler learning book! *My First 100 Art Words* makes a wonderful addition to many other gifts you may be searching for, such as baby first birthday gifts for girls and boys, early development toys for babies, baby learning games, gift sets for babies and toddlers, and more!

Fans of Chris Ferrie's *Rocket Science for Babies*, *Astrophysics for Babies*, and *8 Little Planets* will love this introduction to the basic principles of probability for babies and toddlers! Help your future genius become the smartest baby in the room! It only takes a small spark to ignite a child's mind. If you took a bite out of a cookie and that bite has no candy in it, what is the probability that bite came from a candy cookie or a cookie with no candy? You and baby will find out the probability and discover it through different types of distribution. Yet another Baby University board book full of simple explanations of complex ideas written by an expert for your future genius! If you're looking for baby math books, probability for kids, or more Baby University board books to surprise your little one, look no further! *Bayesian Probability for Babies* offers fun early learning for your little scientist!

Two summers ago, scientists removed a tiny piece of flesh from Philip Ball's arm and turned it into a rudimentary "mini-brain." The skin cells, removed from his body, did not die but were instead transformed into nerve cells that independently arranged themselves into a dense network and communicated with each other, exchanging the raw signals of thought. This was life—but whose? In his most mind-bending book yet, Ball makes that disconcerting question the focus of a tour through what scientists can now do in cell biology and tissue culture. He shows how these technologies could lead to tailor-made replacement organs for when ours fail, to new medical advances for repairing damage and assisting

conception, and to new ways of “growing a human.” For example, it might prove possible to turn skin cells not into neurons but into eggs and sperm, or even to turn oneself into the constituent cells of embryos. Such methods would also create new options for gene editing, with all the attendant moral dilemmas. Ball argues that such advances can therefore never be about “just the science,” because they come already surrounded by a host of social narratives, preconceptions, and prejudices. But beyond even that, these developments raise questions about identity and self, birth and death, and force us to ask how mutable the human body really is—and what forms it might take in years to come.

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