MIND in the Making FROM RESEARCH TO ACTION

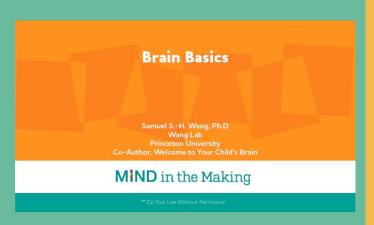
Ellen Galinsky | Mind in the Making | Families and Work Institute InvestiGator Club | May, 2015

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In the first years, trillions of neural connections are made—forming the foundation for future learning.

The architecture of the brain is being built from the ground up, based not just on genes but our experiences and interactions.

But, as you will see, it is never too late.

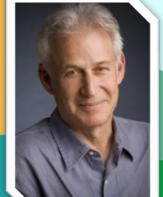


Positive relationships with caring adults are essential for brain development

When we talk about how the environment affects young children, we're really talking about most importantly the human environment and we're talking about relationships. There is no healthy social, emotional and cognitive progression in the absence of relationships.

There is no development without





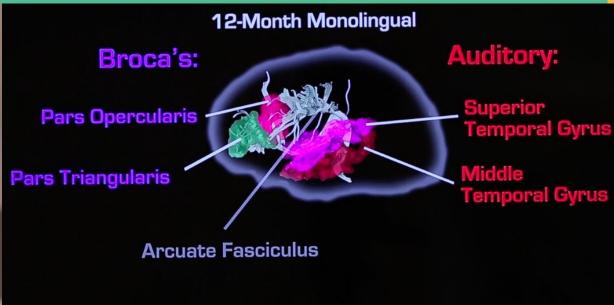
—Jack P. Shonkoff, Harvard University

PROMOTING SERVE AND RETURN.

ESSENTIAL strategy
in improving children's LEARNING

The brain is built for action.





How Young Children Learn Language: A Study with a MEG Machine

Patricia Kuhl, Ph.D.

Co-Director, Institute for Learning & Brain Sciences
University of Washington



MIND in the Making

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How Children Learn Language Patricia Kuhl

PROMOTING EXECUTIVE FUNCTIONS.

ESSENTIAL strategy
in improving children's LEARNING



II. NIH TOOLBOX COGNITION BATTERY (CB): MEASURING EXECUTIVE FUNCTION AND ATTENTION

Philip David Zelazo, Jacob E. Anderson, Jennifer Richler, Kathleen Wallner-Allen, Jennifer L. Beaumont, and Sandra Weintraub

ABSTRACT In this chapter, we discuss two measures designed to assess executive function (EF) as part of the NIH Toolbox Cognition Battery (CB) and report pediatric data from the validation study. EF refers to the goaldirected cognitive control of thought, action, and emotion. Two measures were adapted for standardized computer administration: the Dimensional Change Card Sort (a measure of cognitive flexibility) and a flanker task (a measure of inhibitory control in the context of selective visual attention). Results reveal excellent developmental sensitivity across childhood, excellent reliability, and (in most cases) excellent convergent validity. Correlations between the new NIH Toolbox measures and age were higher for younger children (3-6 years) than for older children (8-15 years), and evidence of increasing differentiation of EF from other aspects of cognition (indexed by receptive vocabulary) was obtained.

In this chapter, we discuss two measures designed to assess executive function (EF) and the closely related construct of executive attention as part of the NIH Toolbox Cognition Battery (CB).

Subdomain Definition

In its broadest sense, the term "attention" refers to the allocation of information processing toward a stimulus or stimuli, but the term is typically used in a more narrow fashion to refer to the allocation of a particular type of information processing, namely that which requires limited conscious resources. According to one well-supported taxonomy, attention is usefully described in terms of three general functionsalerting, orienting, and executive attention-that draw differentially on

"Executive function refers to the top-down neurocognitive processes involved in the flexible. goal-directed problem solving."

(Zelazo, et al., 2008)

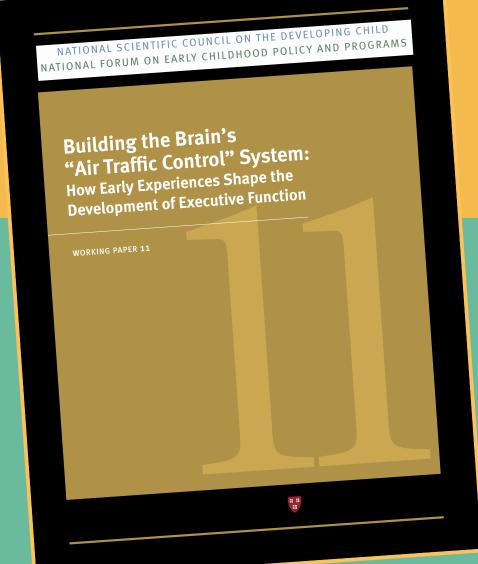
Executive function involves managing thought, action and emotion to achieve goals.

(Miyake et al., 2000)

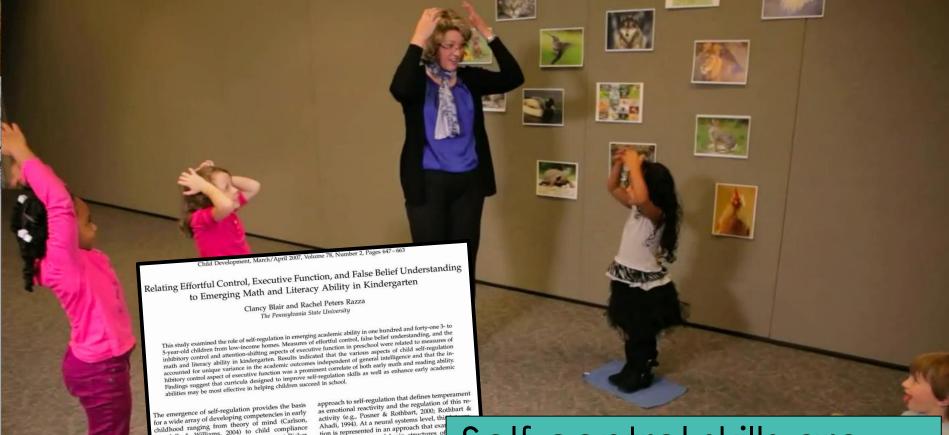
Corresponding author: Philip David Zelazo, Institute of Child Development, University of Minnesota, 51 East River Road, Minneapolis, MN 55455-0345, email: zelazo@umn.edu



Executive Function Life Skills are important to school readiness and school success.



Children need to learn content (the what of learning) and executive function skills (the how of learning.)



The emergence of self-regulation provides tire cardy cheveloping competencies in early childhood ranging from theory of mind (Carlson, Mandell, & Williams, 2004) to child compliance (Kopp, 1989; Stifter, Spirad, & Braungart-Rieker, 1999). Increasingly, accurate description and measurement of self-regulation is seen as central to understanding the processes through which children dapt to and learn in formal school settings (Blair, 2002; Howse, Calkins, Anastopoulos, Keane, & Shelton, 2003). To date, however, only limited work has examined the relation of various aspects of self-regulation to early school success, the topic of this article. This is particularly true for children at increased risk for early school failure such as those from low-income homes.

Temperament-Based and Neural Systems Approaches to Self-Regulation

One way to characterize the emergence of selfregulation in children is to consider it as the developmental integration of emotion and cognition in early childhood. At a behavioral level, this integration is represented in a temperament-based

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Razza is now at the National Center for Chinarea and Familiary, Teachers College, Columbia University, New York, NY. Correspondence concerning this article should be addressed to Clancy Blair, Human Development and Family Sudies, Pennsylvania State University, 101 Hendreon South, University Park, PA 16802-6504. Electronic mail may be sent to cibi1@psu.edu.

Ahadi, 1994). At a neural systems ieve, astion is represented in an approach that exarole of interconnected brain structures of frontal and anterior cingulate cortices in reactivity, emotion regulation, attention, a tive control (Bush, Lun, & Posner, 2000; Raichle, 1998, Groenewegen & Uylings, 20.

A prominent aspect of the temperan approach to the study of self-regulation in the construct known as effortful control () Ahadi, 1994). Effortful control refers to th inhibit a dominant or prepotent response a subdominant or less salient response. fortful control allows for the regulation of and withdrawal behavioral tendencies in immediate cues for reward or punishment on the influence of temperament on chi ment, researchers have been interested in of effortful control to emotion and emo regulation of behavior (Raver, 2004), to social competence and behavior problem et al., 2003; Valiente et al., 2003) and to child relationship and compliance wit requests for behavior regulation (Kocl ray, Jacques, Koenig, & Vandegeest, 19

A prominent aspect of the neural proach to the study of self-regulation cus on cognitive processes referred to executive function. Executive funct attention shifting, working memory. Self control skills are predictive of academic achievement

(Blair and Razza, 2007; Schmitt et al., 2014)

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Executive Function Life Skills are important in addressing high school success, college success and the graduation rate.

High Self-Control Predicts Good Adjustment, Less Pathology, Better Grades, and Interpersonal Success

June P. Tangney

George Mason University

Roy F. Baumeister

Case Western Reserve University

Angie Luzio Boone

George Mason University

ABSTRACT What good is self-control? We incorporated a new measure of individual differences in self-control into two large investigations of a broad spectrum of behaviors. The new scale showed good internal consistency and retest reliability. Higher scores on self-control correlated with a higher grade point average, better adjustment (fewer reports of psychopathology, higher self-esteem), less binge eating and alcohol abuse, better relationships and interpersonal skills, secure attachment, and more optimal emotional responses. Tests for curvilinearity failed to indicate any drawbacks of so-called overcontrol, and the positive effects remained after controlling for social desirability. Low self-control is thus a significant risk factor for a broad range of personal and interpersonal problems.

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Journal of Personality 72:2, April 2004. Blackwell Publishing 2004

Self-control predicts college students' grades, fewer impulse control problems, better adjustment and better relationships.

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Early Childhood Research Quarterly



Relations between preschool attention span-persistence and age 25 educational

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ARTICLE INFO

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Attention span-persistence Self-regulation Academic achievement Educational attainment

This study examined relations between children's attention span-persistence in preschool and later school achievement and college completion. Children were drawn from the Colorado Adoption Project using adopted and non-adopted children (N=430). Results of structural equation modeling indicated that children's age 4 attention span-persistence significantly predicted math and reading achievement at age 21 after controlling for achievement levels at age 7, adopted status, child vocabulary skills, gender, and maternal education level. Relations between attention span-persistence and later achievement were not fully mediated by age 7 achievement levels. Logistic regressions also revealed that age 4 attention span-persistence skills significantly predicted the odds of completing college by age 25. The majority of this relationship was direct and was not significantly mediated by math or reading skills at age 7 or age 21. Specifically, children who were rated one standard deviation higher on attention span-persistence at age 4 had 48.7% greater odds of completing college by age 25. Discussion focuses on the importance of children's early attention span-persistence for later school achievement and educational attainment. © 2012 Elsevier Inc. All rights reserved

1. Introduction

A large body of research documents the importance of children's early skills for charting later developmental trajectories (Shonkoff & Phillips, 2000). In the search to identify sources of influence, children's early executive function and self-regulation have emerged as a salient predictor of later outcomes (McClelland, Acock, & Morrison, 2006; McClelland, Morrison, & Holmes, 2000). For example, children who enter formal schooling without the ability to pay attention, remember instructions, and demonstrate self-control have more difficulty in elementary school and throughout high school (McClelland, Cameron, Connor, et al., 2007; NICHD Early Child Care Research Network, 2003). In particular, the attention aspect of self-regulation has received increasing consideration as a predictor of later achievement (Duncan et al., 2007). In the present study, we examined the predictive strength of children's early attention span-persistence at age four for later academic

achievement and educational attainment between childhood and early adulthood.

function and the broader self-regulation construct. Self-regulation includes both cognitive and emotional regulation and refers aspects of attentional or cognitive flexibility, working memor inhibitory control, and the ability to regulate emotions (Baumeis & Vohs, 2004; Calkins, 2007; Eisenberg & Spinrad, 2004; Grazia Reavis, Keane, & Calkins, 2007; Li-Grining, 2007; Ursache, Bl. & Raver, 2012). In general, self-regulation helps children manand direct their own actions in a variety of cognitive, er tional, and social domains (Blair & Diamond, 2008; McClella Cameron Ponitz, Messersmith, & Tominey, 2010). For example, s regulation helps children inhibit an inappropriate behavior (shouting out an answer in a classroom) and control their e tional reaction to the situation (e.g., stop from having a tantr Related to self-regulation are concepts such as effortful con which is the ability to utilize executive attention to inhidominant response in favor of a subdominant response as based in the temperament literature (Liew, 2012; Rothba Rueda, 2005). Both effortful control and self-regulation are in tant for children's social (Eisenberg et al., 2005; Eisenberg, S Sadovsky, & Spinrad, 2004), academic (Blair & Diamond, 2008

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1.1. Self-regulation and the role of attention span-persistence Children's attention span-persistence is related to executive

One aspect of executive function skills in four-year-olds —"attention span persistence" is strongly predictive of whether or not these same children graduated from college when they were 25 years old.

(McClelland et al., 2012)

ge 25 educational

Funding for this study was supported by the Colorado Adoption Project grant

HD-010333 and grant HD-036773 from the National Institute of Child Health and * Corresponding author at: Human Development and Family Sciences, 245 Hallie Human Development (NICHD). E. Ford Center for Healthy Children and Families, Oregon State University, Corvallis, e. Ford Center for Healthy Children and Families, Oregon state Universi OR 97331, United States. Tel.: +1 541 737 9225; fax: +1 541 737 2072.

Executive Function Life Skills are important in workforce readiness and workforce success.

A gradient of childhood self-control predicts health, wealth, and public safety

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^aDepartments of Psychology and Neuroscience and Psychiatry and Behavioral Sciences, and Institute for Genome Sciences and Policy, Duke U Durham, NC 27705; "Social, Genetic, and Developmental Psychiatry Research Centre, Institute of Psychiatry, King's College London, London S United Kingdom; "Duredim Multidisciplinary Health and Development Research Unit, Department of Preventive and Social Medicine, School and Spepartment of Oral Sciences and Orthodontics, School of Dentistry, University of Otago, Duredin, New Zealand; "Department of Psych University of Illinois, Urbana-Champaign, Li E1820; "Department of Medicine, McMaster University, Hamilton, ON, L854L8 Canac University of Illinois, Urbana-Champaign, Champaign, Li E1820; "Department of Medicine, McMaster University, Hamilton, ON, L854L8 Canac Special Control of Psychiatry (Psychiatry) (Psychiatry

Edited by James J. Heckman, University of Chicago, Chicago, IL., and approved December 21, 2010 (received for review July 13, 2010) ance arises from the empirical observation that pr

Policy-makers are considering large-scale programs aimed at selfcontrol to improve citizens' health and wealth and reduce crime. Experimental and economic studies suggest such programs could reap benefits. Yet, is self-control important for the health, wealth, and public safety of the population? Following a cohort of 1,000 children from birth to the age of 32 y, we show that childhood selfcontrol predicts physical health, substance dependence, personal finances, and criminal offending outcomes, following a gradient of self-control. Effects of children's self-control could be disentangled from their intelligence and social class as well as from mistakes they made as adolescents. In another cohort of 500 sibling-pairs, the sibling with lower self-control had poorer outcomes, despite shared family background. Interventions addressing self-control might reduce a panoply of societal costs, save taxpayers money, and promote prosperity.

life course | longitudinal | public policy

The need to delay gratification, control impulses, and modulate emotional expression is the earliest and most ubiquitous demand that societies place on their children, and success at many life tasks depends critically on children's mastery of such self-control. We looked at the lives of 1,000 children. By the age of 10 y, many had mastered self-control but others were failing to of 10 y, many nad mastered sen-control out offices were raining to achieve this skill. We followed them over 30 y and traced the consequences of their childhood self-control for their health,

wealth, and criminal offending. Interest in self-control unites all the social and behavioral sciences. Self-control is an umbrella construct that bridges concepts and measurements from different disciplines (e.g., impulsivity, conscimeasurements from universit disciplines (e.g., impussivity, conscientiousness, self-regulation, delay of gratification, inattention-hyperactivity, executive function, willpower, intertemporal choice). Neuroscientists study self-control as an executive function subserved by the brain's frontal cortex (1, 2) and have uncovered brain structures and systems involved when research participants exert self-control (3). Behavioral geneticists have shown that self-control is under both genetic and environmental influences (4) and are now searching for genes associated with self-control (5). Psychologists have described how young children develop self-control skills (6, 7) and have traced population patterns of stability and change in self-control across the life course (8). Health researchers report that self-control predicts early mortality (9); psychiatric disorders (10); and unhealthy behaviors, such as overeating, smoking, unsafe sex, drunk driving, and noncompliance with medical regimens (11). Sociologists find that low self-control predicts unemployment (12) and name self-control as a central causal variable in crime theory (13), providing evidence that low self-control characterizes lawbreakers (14, 15).

Economists are now drawing attention to individual differences in self-control as a key consideration for policy-makers who seek to enhance the physical and financial health of the population and reduce the crime rate (16, 17). The current emphasis on selfcontrol skills of conscientiousness, self-discipline, and persever-

grams that targeted poor children 50 y ago, althou achieve their stated goal of lasting improvement in telligence quotient (IQ) scores, somehow produc reductions in teen pregnancy, school dropout, del work absenteeism (18).* To the extent that self-con outcomes as disparate as health, wealth, and crime could have broad benefits. Given that self-control could be a prevention target, and the key policy que when to intervene to achieve the best cost-benefit hood or in adolescence (19, 20)? Regardless of however, if low self-control is influential, policy-many ploit this by enacting so-called "opt-out" schen people to eat healthy food, save money, and obey these the default options that require no effortfu citizens were obliged to opt out of default health grams or payroll-deduction retirement savings scl als with low self-control should tend to take the stay in programs, because opting out requires un and planning (21, 22). Similarly, the idea be reduction policy of "target hardening" is to disc offenders by making law-breaking require effortf antitheft devices require more advance planning In the context of this timely, ubiquitous, ar

interest in self-control, we report findings fro Multidisciplinary Health and Development Stu study of a complete birth cohort of 1,037 childre in a single year, whom we have followed from 32 y with 96% retention (Fig. 1 and SI Appendix) is observational and correlational; this is in c mental behavioral-economics studies that asce tion between performance on laboratory selfdelay of gratification, discounting, intertemp and behavioral proxy measures of wealth, heal laboratory experiments yield compelling infor control, although economists have debated w the laboratory faithfully represents real-world naturalistic Dunedin study complements exp on self-control by providing badly needed info well children's self-control, as it is distribute predicts real-world outcomes after childre

Author contributions: T.E.M. and A.C. designed research; B.W.R., S.R., M.R.S., W.M.T., and A.C. performed research; A.C. analyzed data; and T.E.M. and A.C. wrote the paper The authors declare no conflict of interest.

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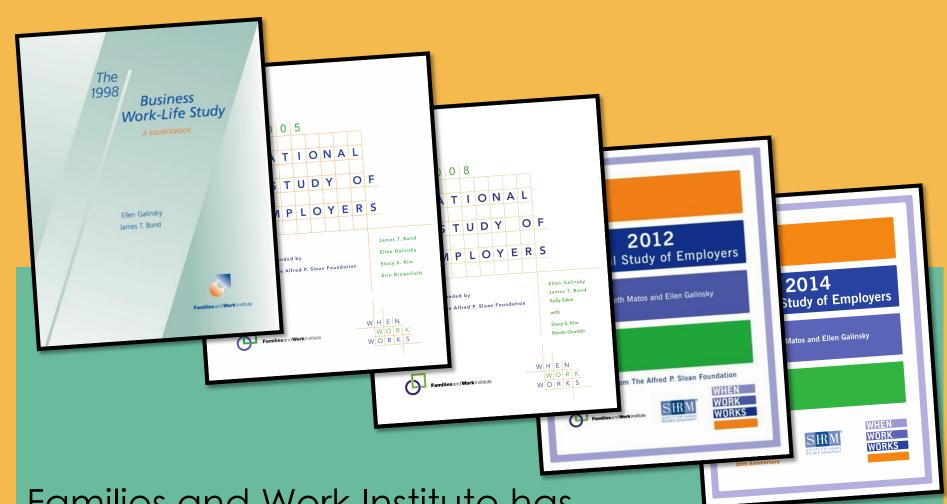
This article contains supporting information online at wv 1073/pnas.1010076108/-/DCSupplemental.

*Heckman JJ, Malofeeva L, Pinto R (2010) Economics of Bureau of Economics Summer Institute, July 30, 2010, Car

Executive functions are predictive of physical health, substance dependence, criminal convictions, and personal finances achieved at age 32, after controlling for socioeconomic status of origin and IQ.

(Moffitt et al., 2011)

PNAS Early Edition | 1 of 6



Families and Work Institute has studied these issues for several decades.

Employers are concerned that new entrants to the workforce have a fill in the bubble mentality, aren't used to working in teams, and don't have experience in challenging themselves.

If we are going to make a difference in school readiness, school success, workforce readiness and workforce success, **Executive**Function Life Skills are a strong place to intervene...



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Interventions shown to Aid Executive Function Development in Children 4-12 Years Old *

¹University of British Columbia and Children's Hospital, Vancouver, BC Canada Adele Diamond¹ and Kathleen Lee¹

Abstract

To be successful takes creativity, flexibility, self-control, and discipline. Central to all those are 'executive functions,' including mentally playing with ideas, giving a considered rather than an impulsive response, and staying focused. Diverse activities have been shown to improve children's executive functions - computerized training, non-computerized games, aerobics, martial arts, yoga, mindfulness, and school curricula. Central to all these is repeated practice and constantly challenging executive functions. Children with worse executive functions initially, benefit most; thus early executive-function training may avert widening achievement gaps later. To improve executive functions, focusing narrowly on them may not be as effective as also addressing emotional and social development (as do curricula that improve executive functions) and physical development (shown by positive effects of aerobics, martial arts, and yoga).

What will children need to be successful? What programs are successfully helping children develop those skills in the earliest school years? What do those programs have in commor

Four qualities will probably be key to success - creativity, flexibility, self-control, and discipline. Children will need to think creatively to devise solutions never considered bef They'll need working memory to mentally work with masses of data, seeing new connections among elements. They'll need flexibility to appreciate different perspectives and take advantage of serendipity. They'll need self-control to resist temptations, and av doing something they'd regret. Tomorrow's leaders will need to have the discipline to st focused, seeing tasks through to completion.

All of those qualities are 'executive functions' (EFs), the cognitive control functions needed when you have to concentrate and think, when acting on your initial impulse would be illadvised. EFs depend on a neural circuit in which prefrontal cortex is central. Core EFs are cognitive flexibility, inhibition (self-control, self-regulation), and working memory (1). More complex EFs include problem-solving, reasoning, and planning. EFs are more important for school readiness than is IQ (2). They continue to predict math and reading competence throughout all school years (e.g., 3). Clearly, to improve school readiness and academic success, targeting EFs is crucial. EFs remain critical for success throughout life (in career [4] and marriage [5]) and for mental and physical health (6, 7).

(Diamond and Lee, 2011)

^{.....} BECAUSE RESEARCH SHOWS THAT THEY CAN BE IMPROVED.

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Focus and Self Control

Perspective Taking

Communicating

Making Connections

Critical Thinking

Taking on Challenges

Self-Directed, Engaged Learning

EXECUTIVE FUNCTION LIFE SKILLS

It all begins with you.



Focus and Self Control

Factors That Matter: Helping Children Develop Their Own Strategies

The Marshmallow Test

Walter Mischel Ph.D., Columbia University

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THE MARSHMALLOW TEST WALTER MISCHEL





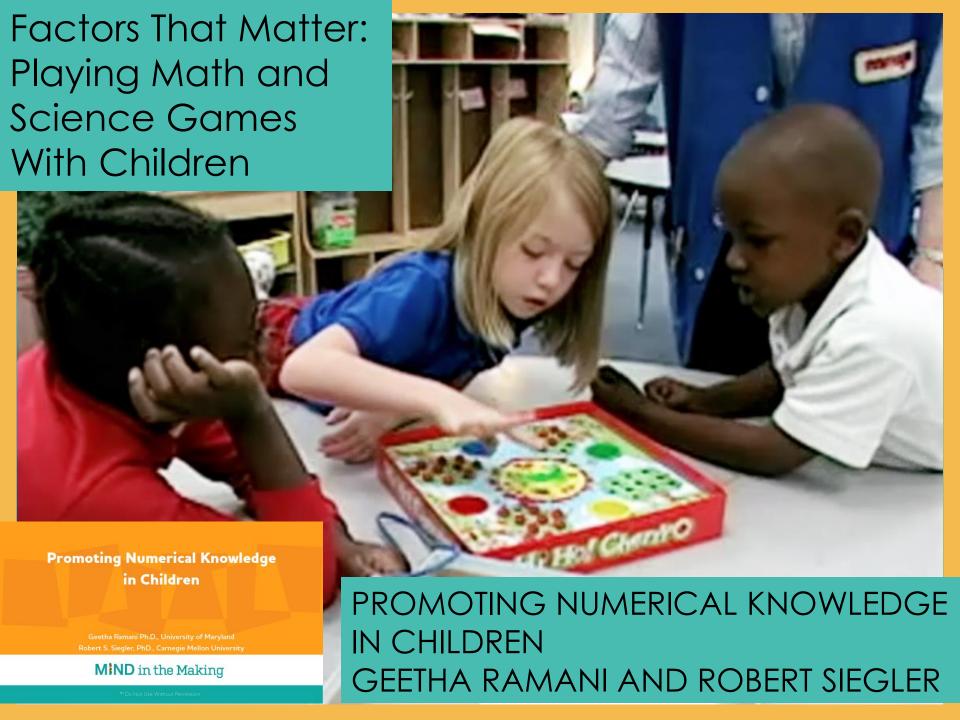
Communicating

Children learn to communicate with conversation duets—with and without words!



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Curiosity

Laura Schulz PhD Massachusetts Institute of Technology

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CURIOSITY Laura Schulz

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Time for reflection—building that skill and the skills of Problem Solving and Critical Thinking

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Taking on Challenges

Factors That
Matter: Praising
Children's
Efforts
and Strategies

Mindset and Motivation: Students' Beliefs about Intelligence

Carol S. Dweck, Ph.D., Stanford University

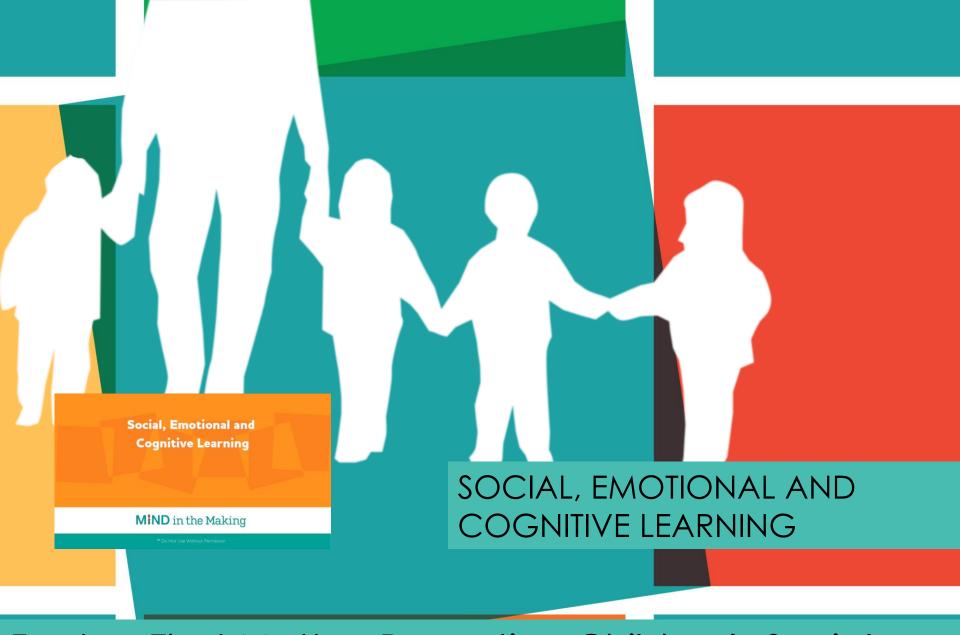
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THE POWER OF MINDSETS CAROL DWECK

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Factors That Matter: Promoting Children's Social, Emotional, and Cognitive Learning.

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EXECUTIVE FUNCTION LIFE SKILLS

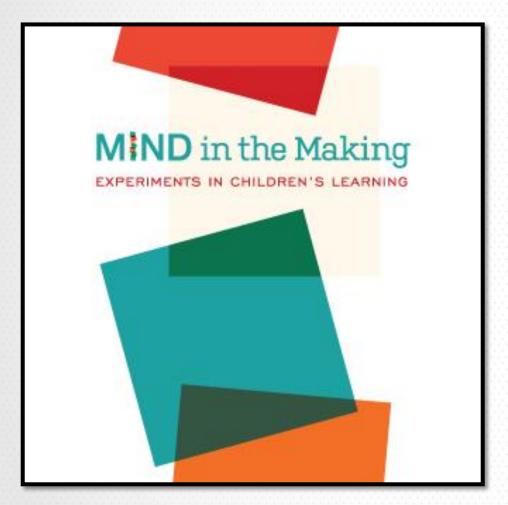




All focused on relationships

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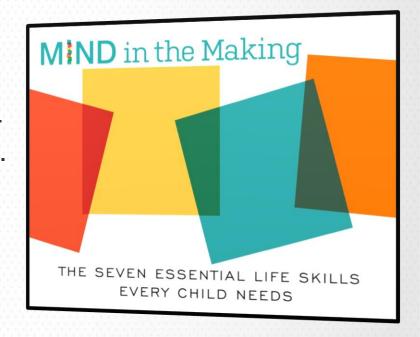


MIND IN THE MAKING
EXPERIMENTS IN CHILDREN'S
LEARNING DVD

Seven Essential Life Skills Modules for Families And Professionals provide new approach to learning and teaching.

The Eight Modules:

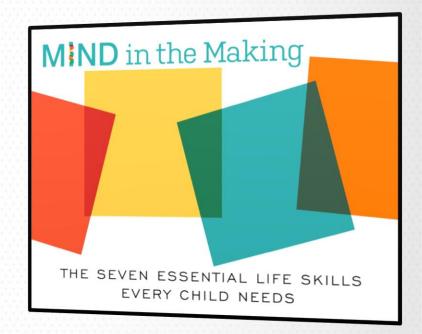
- Promote Executive Function Life Skills for children by promoting them first for adults.
- Provide adults with first-hand experience with child development research.
- Use the language of science
- Tie action to research.



The Eight Modules (continued):

Reframe adults' approach to children's behavior away from managing children's behavior to providing opportunities to teach life skills.

- ☐ Foster goal setting among adults.
- Use an evidence-based theory of teaching and learning.
- ☐ Create linkages and alignments among systems in the 0-8 systems.
- Redefine family engagement.



SEVEN ESSENTIAL LIFE SKILLS MODULES

- Albuquerque and other communities in New Mexico
- Arlington, Virginia
- Austin, Texas
- Baltimore, Maryland
- Detroit, Michigan
- Evansville, Indiana
- Fairfax County, Virginia
- Hartford, Connecticut
- Houston, Texas
- New York City, New York— Children's Aid Society
- Multnomah County, Oregon.
- Providence, Rhode Island
- Tucson and other communities in Arizona
- Tulsa and other communities in Oklahoma
- Charleston and other communities in West Virginia

LEARNING MODULES FOR EDUCATORS

- Florida
- New Jersey
- New Mexico
- Ohio
- Pennsylvania
- Rhode sland
- West Virginia





SEVEN ESSENTIAL LIFE SKILLS MODULES

& LEARNING MODULES FOR EDUCATORS



MIND IN THE MAKING LIBRARY OF CHILDREN'S BOOKS, GAMES, AND FREE TIP SHEETS

- Selected library of 98 books for infanttoddlers, preschoolers and school-age children that promote
- ☐ First Book makes these books available at greatly reduced prices for programs serving low-income children.
- Mind in the Making created free tips sheets showing how to promote Executive Functions—256,231 downloads since September 2013—164,955 in English and 91,276 in Spanish: http://mindinthemaking.org/firstbook/.

Collaboration between First Book and Mind in the Making funded by the Popplestone Foundation.



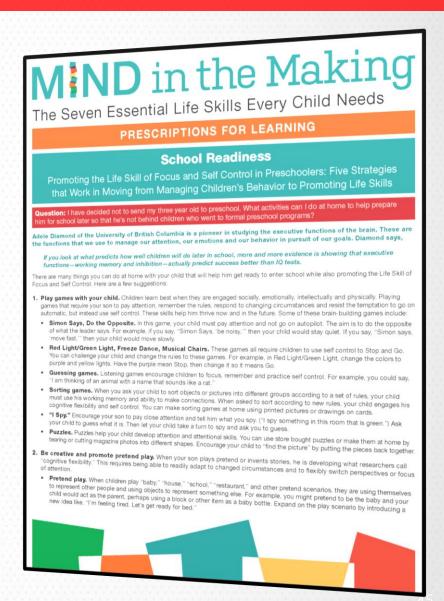


MIND IN THE MAKING FREE PRESCRIPTIONS FOR LEARNING

☐ Tips sheets take frequently asked questions by parents, and offer strategies that work in moving from managing children's behavior to promoting Life Skills.

http://www.mindinthemaking.org/prescriptions-for-learning/

Funded by the Popplestone Foundation.



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We have been working with the Bezos Family Foundation to create materials for an initiative called Vroom. Vroom was born out of a need for creative tools and materials that inspire families to turn everyday moments into brain building moments. It was developed with thoughtful input from parents, early childhood experts, neuroscientists, and community leaders in order to share the science of early brain development in new ways so that all children have the chance to become thriving adults. The Bezos Family Foundation provided funding, and a lot of passion, because they believe that all parents have the potential to create a bright future for their children.

http://www.joinvroom.org

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EVERYONE CAN PROMOTE THESE SKILLS AND EVERYONE CAN LEARN THESE SKILLS.

IT DOES NOT TAKE EXPENSIVE TOYS OR MATERIALS.

DOING EVERYDAY THINGS IN NEW WAYS.



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