A Call for Quality Early Learning Opportunities in South Dakota
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Brain Development
Young Children in South Dakota
SDPB Early Learning
WE HAVE LEARNED MORE IN THE LAST 20 YEARS ABOUT THE BRAIN AND ITS FUNCTIONS THAN WE HAVE IN THE PAST 200 YEARS.
Brain Development

• From birth to age 5, a child’s brain develops more than at any other time in life. And early brain development has a lasting impact on a child’s ability to learn and succeed in school and life. The quality of a child’s experiences in the first years of life – positive or negative – helps shape how their brain develops.

-Firstthingsfirst.org
Brain Development

Dendrites

From Courchesne et al, 2007

Newborn, 1 month, 6 months, 2 years
Brain Development – Best Learning Practices

Start early

With

Language Development
Social/Emotional Development
Exposure to the World
The Benefits of Early Learning

• Children at risk who do not participate in high-quality early education programs are 50% more likely to be placed in special education

• 25 percent more likely to drop out of school

• 60 percent more likely to never attend college

• 70 percent more likely to be arrested for a violent crime. and 40 percent more likely to become a teen parent.

A quality Early Learning program has positive results in every area including:

• Educational Savings
• Taxes on Earnings
• Welfare Savings
• Crime Saving

- Perry Preschool Project, The Heckman Equation, Federal Reserve Bank of Minneapolis
The Benefits of Early Learning

The return on investing in quality Early Learning programs is $12.90/$1 spent.
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Brain Development

Young Children in South Dakota

SDPB Early Learning
Status of Young Children in SD

• 2015 population under 5 years **61,244**
  • 0-12,419, 1=12,520, 2=12,147, 3=12,137, 4=12,021

  by-age/*

• 76% of children under age 6 have all available parents in the labor force (2015 data). The national average is 65%. **SD is highest in nation.**

  *“Facts on Kids in South Dakota, Volume 17, 1st Quarter 2017, SD KIDS COUNT***

• Number of children under age 5 in poverty (2015) is 20% or 14,000 children **Some communities can be over 90%**

  *SD KIDS COUNT Factbook 2016 pg. 10*

• SD one of 4 states without state funded pre-K (ID, NH, SD, WY)

  *(in other words 92% of states DO have state funding)*

Who is going to Preschool in South Dakota

Fee and School/Community Based

GAP

Head Start

Wealthy

Poor
Two Key Issues in Early Learning in SD

Quality and Availability
A Call for Quality Early Learning Opportunities in South Dakota

Brain Development
Young Children in South Dakota

SDPB Early Learning
South Dakota Public Broadcasting

Early Learning Initiative
Our Mission

To serve children and not sell something to them.
Our Vision

To ensure that every child in South Dakota enters kindergarten ready for school and for life, supported by informed and engaged parents, professional educators, and caregivers.
South Dakota Public Broadcasting Kids Engagement Model

Helping Kids Thrive
Building Stronger Family Engagement
Growing the Capabilities of Educators

- Deep Engagement to Understand Issues
- Leveraging Strong State Partnerships
- Aligning with State Learning Goals
- Training and Access to PBS/SDPB Resources

SDPB Resources
South Dakota ECE Partners

A Rich Library of Curriculum-Based Learning Games, Apps, and Activities
Streaming and On-Demand Programming on Digital and Mobile Devices
24/7 Broadcast Channel – Available FREE in Every Home, Every Hour, Every Day
50 Years of Trusted, Educational Children’s Programming
Children and Families with adequate to abundant resources

Children and Families with limited resources

Children and Families with little to no resources
SDPB Early Learning Initiative Services Three Groups!
South Dakota Early Learning Guidelines

Approaches to Learning
Children are born with an inclination to learn. This is reflected in behaviors and attitudes such as curiosity, problem-solving, maintaining attention, and persistence.

Social & Emotional Development
Children’s feelings about themselves and their relationships with others is the foundation for personality development. These characteristics and skills impact every other area of development.

Communication, Language & Literacy
From birth, children are learning language and developing the ability to communicate. Talking, singing, reading, and responding effectively when children express themselves are great investments supporting learning.

Cognitive Development
This fascinating area of development includes understanding how children acquire, organize, and use information in increasingly complex ways. Through play, skills are developed as the foundation for exploring and understanding more sophisticated concepts.

Health & Physical Development
Physical growth, muscle development, nutrition, self-care, health and safety practices are included in this area. Safe and healthy practices support the ability to learn more effectively in all areas.
PBS and SDPB Programming and Resources
PBS and SDPB Programming and Resources

America’s Largest Classroom

PBS KIDS on Multiple Platforms is EQUIVALENT ACADEMICALLY TO A QUALITY PRESCHOOL*

*Northwestern University Study
SDPB Early Learning Initiative

PBS and SDPB Programming and Resources

South Dakota Early Learning Guidelines
### Domain: Cognitive Development (CD)

**Component: MATHEMATICAL THINKING AND EXPRESSION**
- **Goal CD-4**: Through their exploration, play, and social interactions children connect with understanding and use numbers to tell how many, describe order, and compare.
- **Goal CD-5**: Through their exploration, play, and social interactions children demonstrate concepts about position, as well as identify and describe simple geometric shapes.
- **Goal CD-6**: Through their exploration, play, and social interactions children compare, sort, group, organize, measure, and create simple patterns using concrete objects.
- **Goal CD-7**: Through their exploration, play, and social interactions children use mathematical thinking to ask questions and solve problems.

#### PBS Programming that teaches Mathematical Thinking and Expression
- The Cat in the Hat Knows a Lot
- Curious George
- Odd Squad
- Peg + Cat
- Sesame Street
- Sid the Science Kid

### Big Picture: Programming and support materials that cover multiple math GOALS

<table>
<thead>
<tr>
<th>Peg + Cat Camp</th>
<th>Sesame Street Toolkit - Math</th>
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<tbody>
<tr>
<td>Peg + Cat Camp engages preschoolers in fun, informal learning experiences in math and problem-solving.</td>
<td>Sesame Street Math is Everywhere helps parents, caregivers, and educators help young children explore and understand math in the everyday world. By focusing on the broad thinking and reasoning skills required to master mathematics, Math is Everywhere hopes to use math as an early starting point for empowering children’s learning across the curriculum for years to come.</td>
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</tbody>
</table>

https://kshb41learningmedia.org/collection/pst-cat-camp-collection/

https://www.sesamestreet.org/toolkits/math
Song: Number of the Day: 20 | Sesame Street
Math, counting, and number recognition have never been so catchy! Sing along with The...
Sesame Street
Grades PreK-1

Sorta-ma-Gogo | The Cat in the Hat Knows a Lot About That!
Visit Toborrowland with Nick and Sally, and help them pick up and sort...
The Cat in the Hat Knows a Lot About That
Grades PreK-K

Peg + Cat Camp | Day 1
Peg and Cat are helping the Farmer today, and they have a lot of work to do! Today's activities include...
Peg + Cat
Grade PreK
SDPB Early Learner Links

About SDPB's Early Learning Initiative

SD Early Learning Guidelines

SDPB's Learning Home Page

• Approaches to Learning
• Social & Emotional Development
• Communications Development
• Cognitive Development
• Health & Physical Development
• SDPB Outreach
• Links & Resources
Development of Positive Sense of Self

Children demonstrate a positive sense of themselves as unique and capable individuals in play and everyday tasks (*Goal SED-1)

- Self-Awareness Understanding Emotions
- Self-Awareness Preferences and Self Image
- Social Awareness - Detecting Qualities of Individuals and Groups
- Self-Management Self-Control
- Relationship Skills - Understanding Relationships
- Relationship Skills - Mutual Respect
- Moral Functioning - Understanding Ethics, Safety, and Norms
- Moral Functioning - Demonstration of Care and Empathy

Developing Relationships

Children form relationships and interact positively with familiar adults in play and everyday tasks (*Goal SED-2)

Children form relationships and interact positively with other children in play and everyday tasks. (*Goal SED-3)

- Social Awareness - Detecting Qualities of Individuals and Groups
- Social Awareness - Addressing Interpersonal Conflict
- Social Awareness - Playing with Others
Welcome to the latest edition of the SDPB Education Update Newsletter.

Please forward this newsletter to fellow coworkers and encourage them to JOIN today.

https://www.facebook.com/SoDakPB
Like us on Facebook!

https://twitter.com/SoDakPB
Follow us on Twitter!

1. SDPB 1 Kids Television Schedules/ SDPB 4 PBS Kids Television Schedule

Featured Collection:

Curious George: “STEM”
Active learning begins with curiosity! The Curious George STEM Collection is a great way to help young children understand science, technology, engineering, and math (STEM) concepts, such as measuring, building, and simple machines. Lesson plans with Curious George videos offer hands-on investigations and exciting new learning opportunities that will inspire children to explore the world around them. Program Site Grade: PreK - 4

2. Approaches to Learning:
Curiosity, Information-Seeking, and Eagerness; Initiative, Effort, Engagement, and Persistence; Risk-Taking, Problem-Solving, Flexibility, and Resiliency; Play and Imagination

Online Resources:

Building Bridges – The Cat in the Hat
Join Nick, Sally, and the Cat in the Hat as they learn about
Let's Get into Math!

Hey Parents, share this link with your child for a fun activity that helps teach mathematical thinking and expression!

Picking Up Chickens – Peg + Cat
Use this video to help children count objects and compare quantities. Peg and Cat must get chickens back in the coop before the farmer sees.

Lesson and Video/ Grade: PreK - K

Learning is fun when you do it with your child!
Let’s Talk about Screen Time Concerns

• Reading and reading to children is still the best educational intervention for early learners.
• Kids are over-served by media and under-served by media and content of quality that matters.
• Not all screen time is created equal. We should limit the amount of screen time, but quality screen time is a vital part of the modern educational process.
FAMILY & Community Learning

PLAY & LEARN

SCIENCE!

FACILITATOR GUIDE

A multi-generation engagement program designed to activate creative and collaborative learning using PBS KIDS media and resources.

Courtesy of PBS KIDS
South Dakota Public Broadcasting
Early Learning Initiative

SDPB Early Learning Initiative

- SDPB/PBS Programming and the SD Early Learning Guidelines
- Outreach to stakeholders, Professionals and Parents
- Strong State Partnerships

- Social and Emotional Development
- Communication, Language and Literacy
- Cognitive Development
- Health and Physical Development

- Newsletter
- Social Media
- Workshops and Visitations

- Early Learner South Dakota
- SD Library Association
- Department of Education
- Parent Groups
Now is the time for the SDPB Early Learning Initiative

Why Now?

Changes in resources SDPB/PBS
Early Learning Guidelines
Demographics and the need

Now is the time for the SDPB Early Learning Initiative
A Call for Quality Early Learning Opportunities in South Dakota

A History of Education in South Dakota
Brain Development
Young Children in South Dakota
The State of Preschool in South Dakota
SDPB Early Learning

THANK YOU!