

# Early Brain Development and Developmental Theories

Jurupa Unified School District  
Parent Involvement & Community Outreach  
Parent & Early Child Development Center



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# Agenda

- Early Brain Development
- Parental Involvement
- Our Programs at JUSD/PICO
- Developmental Therories
- Key Take Always



# Early Brain Development



# Brain Development



**90%**  
of a child's brain development  
happens before age 5



**1 in 4**

children ages 0-5  
are at risk for delay



Only  
**28.5%**

of children receive  
timely developmental  
screenings

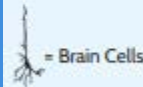


Every year,  
**12,000**

three-year-olds are missing from  
CA's special education system

**Early intervention supports children,  
reduces special education costs in K-12,  
and leads to better outcomes for kids.**

Wiring between  
the cells increases  
the first 2 years  
of life.

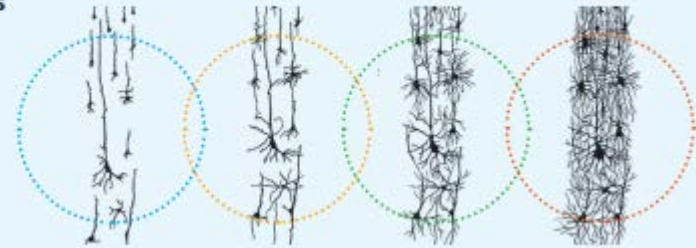


Newborn

1 Month

6 Months

2 Years



of brain development  
happens in the first  
3 years of life



of brain development  
happens by the age of 5



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# Language and Literacy and Brain Development

- Sensitive Period
- Critical Period
- Speaking multiple languages

“You may have tangible wealth untold, caskets of jewels and coffers of gold, richer than I you will never be, I had a mother who read to me.”

-Strickland Guillilan



# Developmental Screenings

**Routine screenings** of children's development during a health care visit help guide referrals to the services children need, resulting in cost-effective care and better outcomes for kids



**2 in 5** CA parents

with children under age 6 report having concerns about their child's physical, behavioral, or social development



**1 in 4** CA kids

under age 6 are at moderate- or high-risk for developmental, behavioral, or social delays, but .....



Fewer than **1 in 3**

young children in California receive timely developmental screenings



# Parent Involvement





# Why Parent Involvement



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# Key Feature of Parent Involvement

- Parent-Child interaction programs
- Parents as Teachers
- Acknowledging that parents are the experts of their own children
- Facilitate by an Early Learning Specialist



# What Influences Parent Involvement

## Staff

- Backgrounds
- Match with Program
- Match with Clients
- Supervision and Training

## Parent

- Family Context
- Demographics
- Psychological Characteristics
- Need
- Motivation

## Program

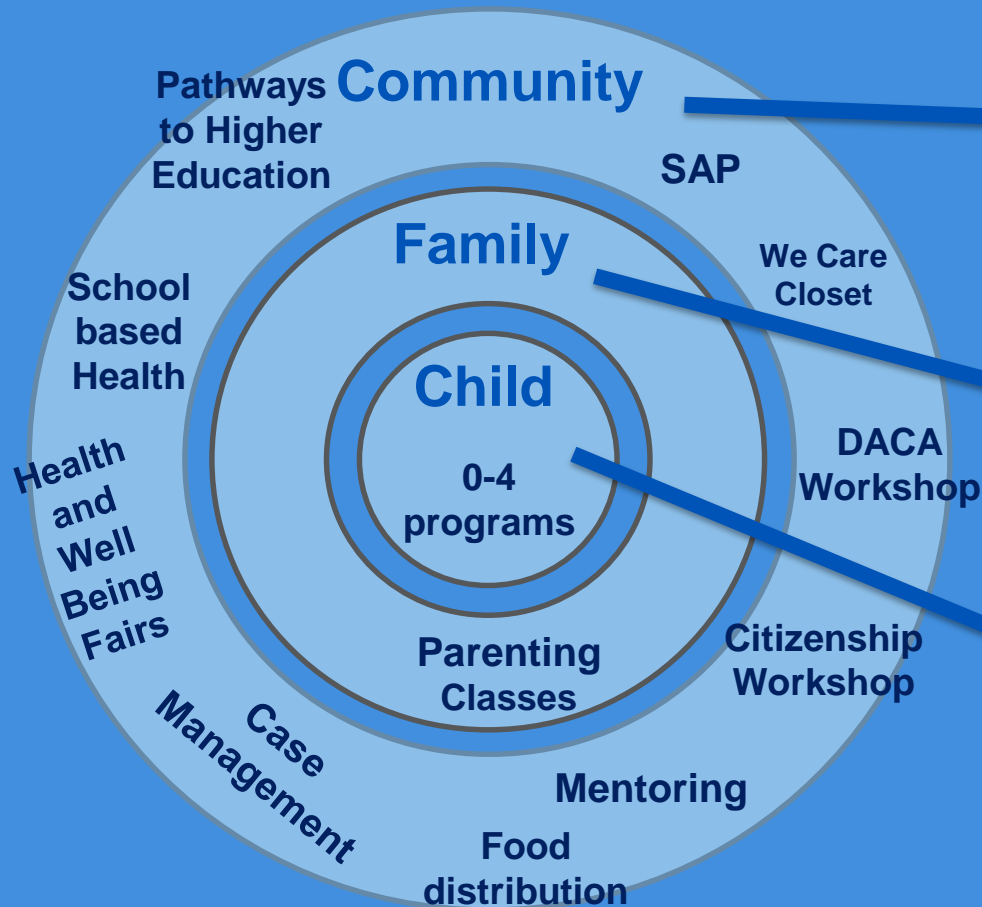
- Structure
- Content

Participation

Engagement



# Supporting Literacy Through the Whole Child, Family, and Community



- Libraries
- Concrete support in times of need
- Positive Parenting classes
- Literacy classes
- Literacy Cafe
- Language enriched programs
- Developmental screenings
- Exposure to books



# Programs at the Parent & Early Child Development Center



# Home Visitation

 **1 in 7** CA kids are reported for abuse or neglect before age 5

 **62%** of CA babies live in low-income families

 **Only 11%** of CA kids ages 0-3 have received one or more home visits

 **\$1**  $\rightarrow$  **\$6** For every **DOLLAR** invested, home visiting can yield a return of **NEARLY SIX DOLLARS.**

**Early intervention supports children, reduces special education costs in K-12, and leads to better outcomes for kids.**

## What Happens in the First 5 Years Affects Us All

### A child's experience

Positive parenting fosters social and emotional resilience

### shapes the adult

Improved relating to others at school, work, home

### and the rest of society

Safe and thriving communities, reduced social welfare costs







# First Steps



 Centers for Disease Control and Prevention  
CDC 24/7: Saving Lives, Protecting People™

 MENU  CDC A-Z  SEARCH

Learn the Signs. Act Early.

[Learn the Signs Home](#)

*Milestones in Action*

[Complete a milestone checklist](#)

Welcome to Milestones Photo and Video Library - a FREE library of photos and videos of developmental milestones.



2 months



4 months



6 months



9 months



1 year



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# Program Results from Graduates

Parent graduates have reported that the program has helped them interact, become closer to their child, offered a better understanding of their child's development as well as provided them with the skills needed to promote development.



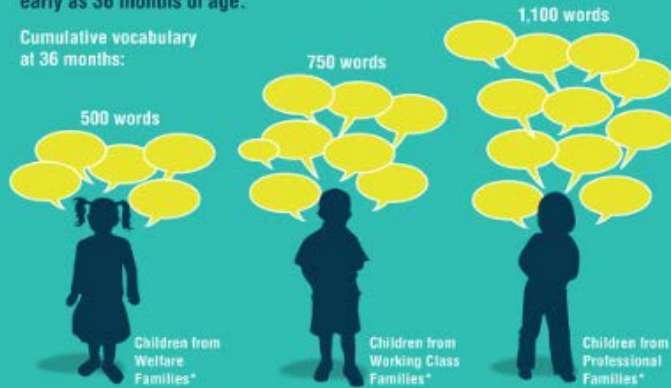
# ParentChild+

## LONG ISLAND INDICATORS

# Closing the Achievement Gap Before it Starts

Differences in language acquisition are closely tied to multiple factors, including family income. Children from poorer families often struggle to keep pace with their peers academically. This gap is apparent as early as 36 months of age.

Cumulative vocabulary at 36 months:

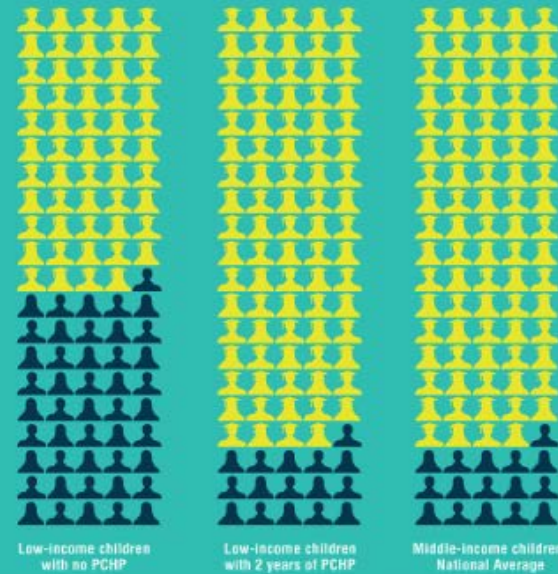


\*As defined by Hart and Risley, 1995

Programs that intervene before age three have dramatic life-long benefits. The Parent-Child Home Program (PCHP) is one such program. This national home visiting early literacy program began on Long Island and has been shown to help erase the achievement gap.

High school graduation rates\*\*:

= graduates = non-graduates



\*\*Based on a longitudinal study conducted on a PCHP program in Pittsfield, Mass.

Data compiled by the Long Island Index, a project of the Raush Foundation

Design: Amy Unikawicz/JellyFever



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# Research Outcomes



ParentChild+ participants have **30% higher graduation rates than their peers.**



ParentChild+ graduates are **50% more likely to be prepared for kindergarten** than their socio-economic peers.



ParentChild+ graduates are **50% less likely to need special education** services by third grade.



ParentChild+ graduates enter school performing **10 months above their chronological age.**





# Home Instruction for Parents Of Preschool Youngsters



- One language and one literacy activity per week
- Centered around 8 books
- Parents supported through coaching and modeling



# Center Based Programs



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# ABC Music & Me



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# ABC Music & Me



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# Language Skills

Skills	First Steps	ParentChild+	HIPPY	ABC
Expressive	X	X	X	X
Receptive	X	X	X	X
Oral motor	X		X	X
Imitation Skills	X	X	X	X
Rhyme	X	X	X	X
Enriched Environment	X	X	X	X
Auditory Discrimination			X	X



# Literacy Skills

Skills	First Steps	ParentChild+	HIPPY	ABC
Interest in Literacy	X	X	X	X
Story Comprehension		X	X	X
Concepts of Print	X	X	X	X
Phonological Awareness	X	X	X	X
Letter / Word Knowledge		X	X	X
Emergent Writing		X	X	X





# Our Programs at a Glance

Program	Inception	2018-2019 enrollment	Enrollment to date	Cost per family	Funding Source
ABC Music & Me	Fall 2015	110	450	\$70.00	Title-1
Parent-Child Home Program	Fall 2016	73	85	2070	First 5 Riverside JUSD
Home Instruction of Preschool Youngsters	Fall 2018	113	135	1800	First 5
STEM	Fall 2018	44	52	96	Private Donation
First Steps	Feb 2017	46	72	122.00	JUSD



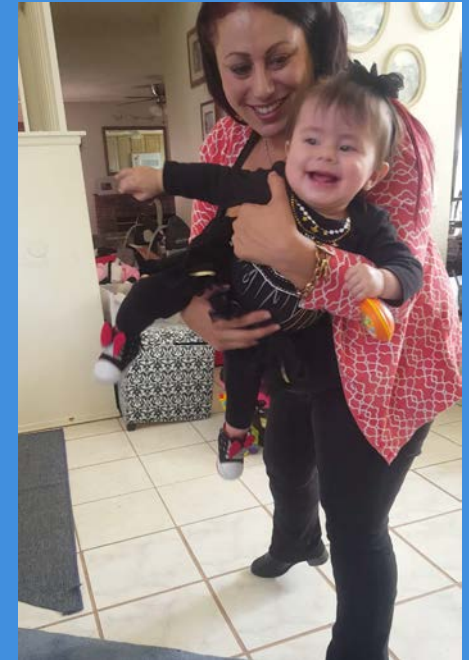
# Take Home





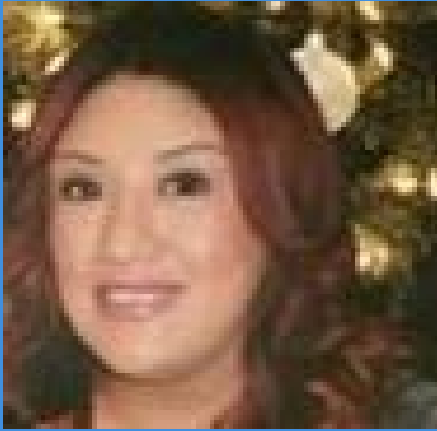
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# Invest in 0-4 Early Literacy Through Parent Involvement Programs



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# Success Story



Cynthia Lopez

“A lot of the districts don’t offer these programs, so we are very fortunate. I always let our teen moms know about the programs you offer and let them know it is a huge help! I thought my son was maybe having delayed speech but, once he began interacting more he started speaking more! Yay!! Now at the age of 3 he knows all his letters out of order, letter sounds A to P, shapes, counts from 1 to 20 in English and 1 to 10 in Spanish! I always speak very highly of your programs.”





# The Pathway to Improved Outcomes for Children and Families

## Strengthening Families™ Protective Factors Framework Logic Model

