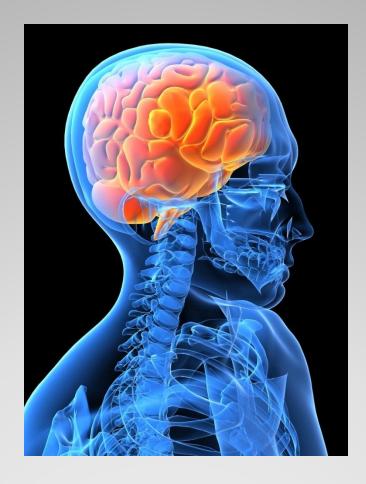
Brain Insights For Early Educators

Stimulating Brain Development in Your Program

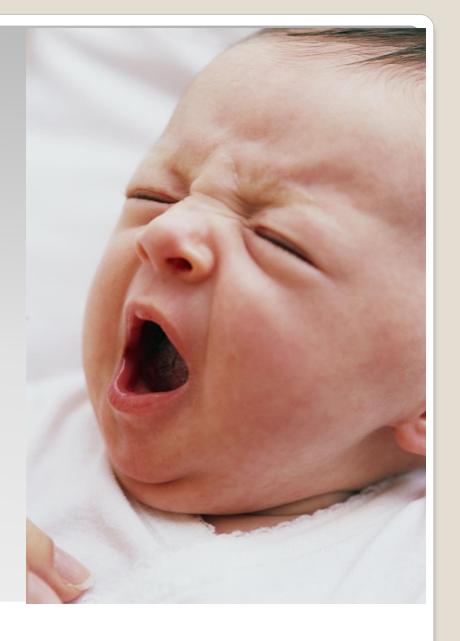




You Are Experts

braininsiahts™

"I am just a newborn what is all this talk about my brain development? Can't it wait until I go to school?"



"Oh really...? Much of my brain development happens

after birth?"

 90% of the brain develops in the pre-school years.

100 billion brain cells at birth



"Everyone should know about how my brain develops!"

"...early childhood experiences exert a dramatic and precise impact, physically determining how the intricate



neural circuits
of the brain are wired."

Newsweek, Feb. 19, 1996

Regardless of the general environment, all children need stimulation and nurturance for healthy development.

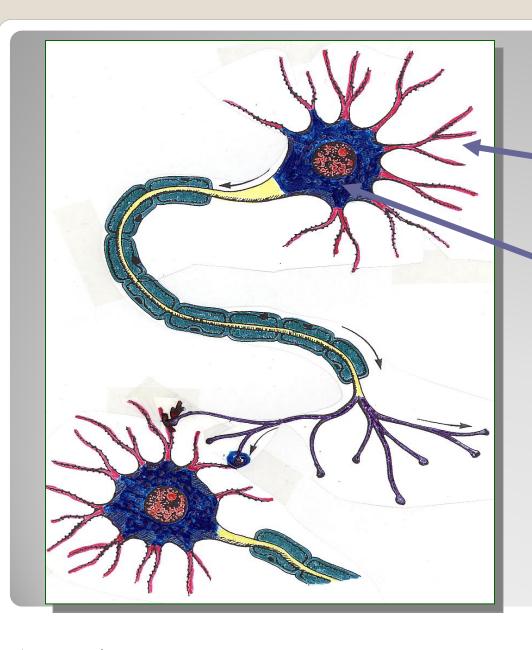
If these are lacking or if a child's caretakers are indifferent or hostile, the child's brain development may be impaired....

...because the brain adapts to its environment, it will adapt to a negative environment just as readily as it will adapt to a positive environment.

- US DHFS, Administration for Children & Families, Children's Bureau 2001





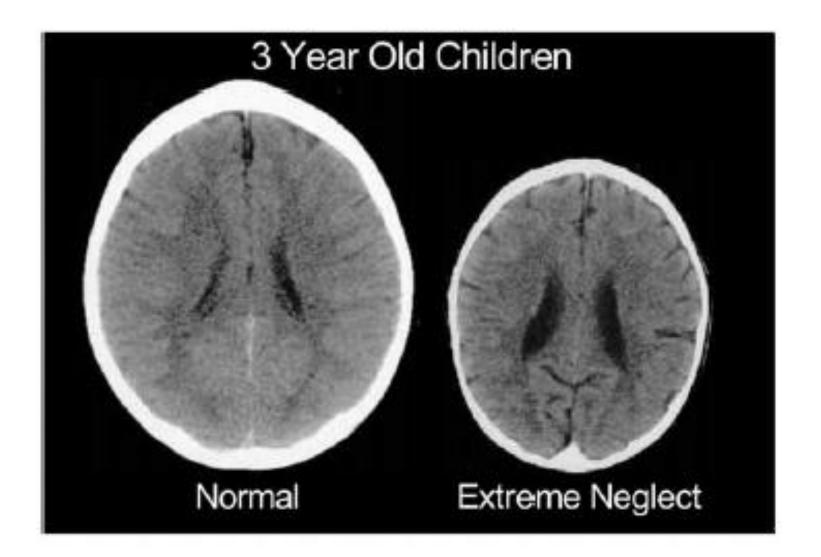


Neurons

dendrites

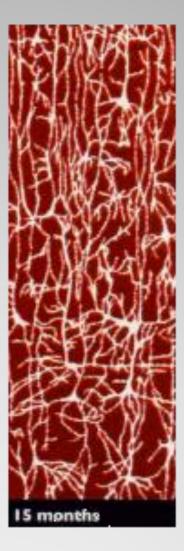
cell body

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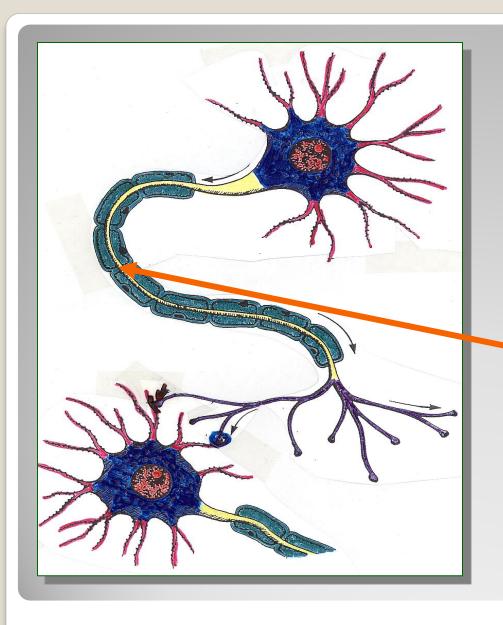


Pruning

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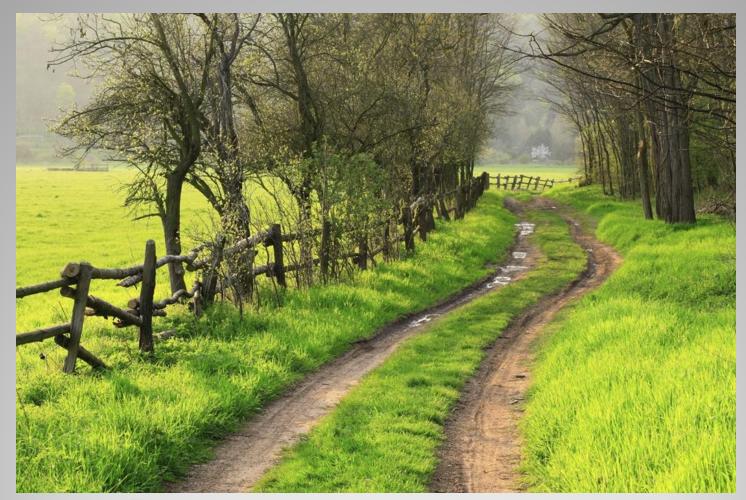
Organized



Neurons

myelin sheath

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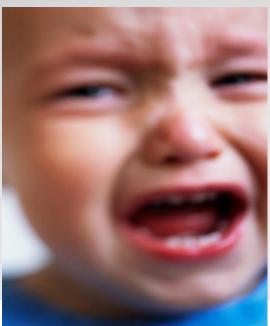
Pathways

Your Name



Repetitive experiences change a child



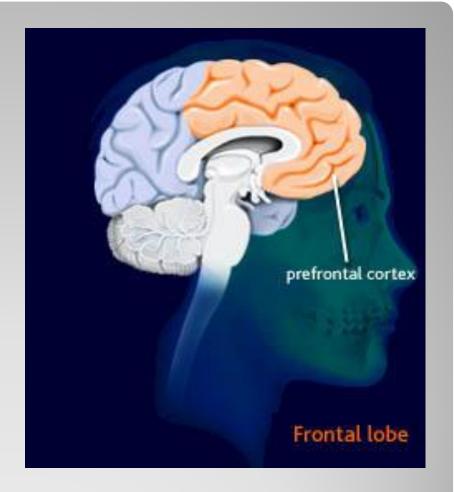




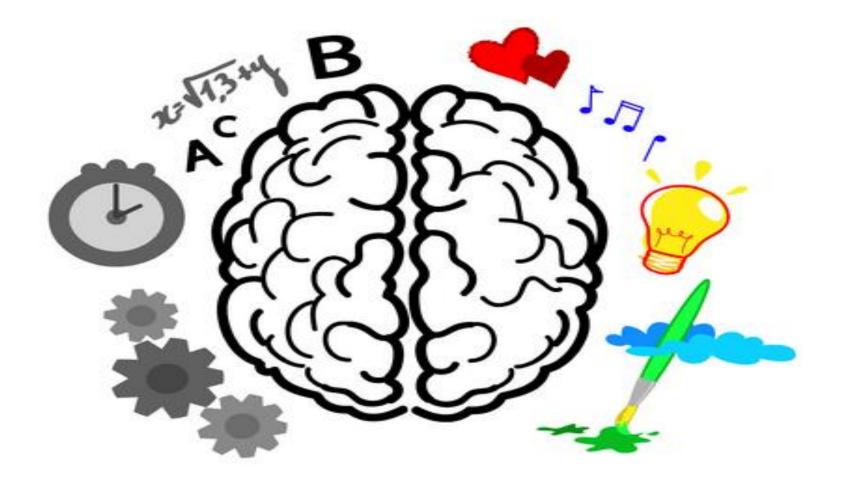




- Prioritize thoughts
- Ability to imagine
- Think in the abstract
- Anticipate consequences
- Plan
- Control impulses



The Prefrontal Cortex



Our Amazing Brain...is constantly making new connections!

braininsights[™]

Each time a baby or older child explores...

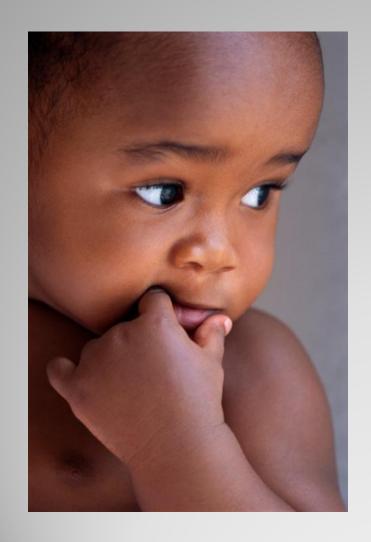
each time she directs her attention stubbornly onto something...

the brain cells are being changed and the child is learning.





The brain needs to verify that what it sees is true



"Wow repeating experiences really makes a difference to my brain!"

Living with Predictability





The Brain Likes Novelty

Selective focusing of attention can filter out distractions



Habituation



Positive and consistent relationships!

Fun interaction with others and opportunities to make choices!

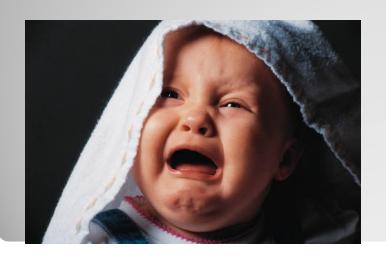






The brain does not like chaos

Organized less noisy and calmer environments





..... reduces stress in my brain.

- Nature relieves stress improves memory, problem solving, and attention
- Both children and adult brains function better after being exposed to nature



The Brain Needs Nature



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 Sleep keeps the system in balance -natural calming mechanisms stabilizes mood

- Short of sleep
 - calming mechanisms may no longer function well
 - putting a child into states of over arousal



The Science of Parenting by Margot Sunderland



Missing breakfast

 can result in hyperactive
 behavior

A healthy breakfast

 improves physiological
 well-being, and behavior



Research has shown, when children who didn't eat breakfast started eating it, they had a far more stable mood for the rest of the day.

The Science of Parenting by Margot Sunderland

Breakfast and the Brain

Hunger disrupts hormones.

-Blood sugar levels too low, the body will releases stress hormones to raise blood sugar levels

The strong activation of these hormones may lead to:

 anxiety, agitation, aggression, feelings of panic, and confusion or temper tantrums.

 Low blood sugar also deprives the brain of glucose, which can lead to out of control behavior

The Science of Parenting by Margot Sunderland

Hunger Affects Behavior

 A child can play very well for some time if he eats a balanced meal, which boots levels of serotonin in the brain.



 Chocolate and candy eaten on an empty stomach, instead of a proper meal (or without the presence of adequate amounts of protein), send a child's sugar levels sky-high.

- a drop in blood sugar 30 minutes later, leads to aggression, anxiety, and hyperactive

behavior.

The Science of Parenting by Margot Sunderland

Well Balanced Diet

"Stable, caring relationships are essential for healthy development. Children develop in an environment of relationships that begin in the home and include extended family members, early care and education providers, and members of the community."



-- Harvard Brief on Children's Emotional Development

You are making a difference!

You are developing young brains everyday!



Deborah McNelis

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http://braininsights.blogspot.com/

LOVE YOUR BABY
Making Connections in the First Year

Brain Development with 40 Fun and Loving Activities

414-975-7045

5430 S. LaSalle Drive New Berlin, WI 53151





Inspiring REAL Brain Development for All Young Children!

- Add information to a newsletter
- Create a special column or insert

Newsletters

- Create an electronic method for sharing information
- Regularly scheduled updates
- Create a section in currently used e-mails

E-mail Updates

CARING FAMILY NEWSLETTER

Volume I Issue 1

March 17, 2007

Buying Toys With the Brain in Mind

Instead of buying expensive toys and programs, look instead for toys that are best for children that do any or all of the following:

- Provides an opportunity for direct interaction and manipulation
- Gives a child a chance to develop something with their hands
- Offers a variety of ways of using the toy or objects
- Sparks imagination and creativity
- Allows the child to repeat a process
- Promotes physical activity

Examples are: Puzzles, building blocks, building sets, crayons, balls, paints, play dough, dolls, trucks and cars, shape sorters, sand toys, bean bags, nesting cups, pretend play sets, water toys, and books!

Opportunities to just play, create, explore, and manipulate objects provides the best opportunities for real learning. When these activities are driven by a child's own interests this is when you will almost be able to see brain connections being made!

Newsletter Example

- Save information in a binder
- Index under topics
 - By age
 - By areas of development (Motor, social-emotional, memory, etc.
 - By influences (Nutrition, toxins, environment, genetics)
 - By gender
 - By resource (Websites, books, organizations, etc.)
 - By local services (workshops, speakers bureau)

Resource Files

- Section off specific area of a bulletin board for posting new information
- Create a bulletin board designated for brain development information



Bulletin Boards

Include information sharing at meetings

- Add brain development updates to agenda
 - Share pertinent information received
 - Create awareness of resources
 - Distribute information on upcoming workshops
 - Arrange for a speaker at meetings
- Include information in meeting notes or minutes following meetings

Meeting Updates

- Share with each other
 - -Tell about information you become aware of
 - Keep track of new ideas and Share techniques ideas you find work
 - Post on Social Networks/Join discussion groups



Networking



Recognize all you do!