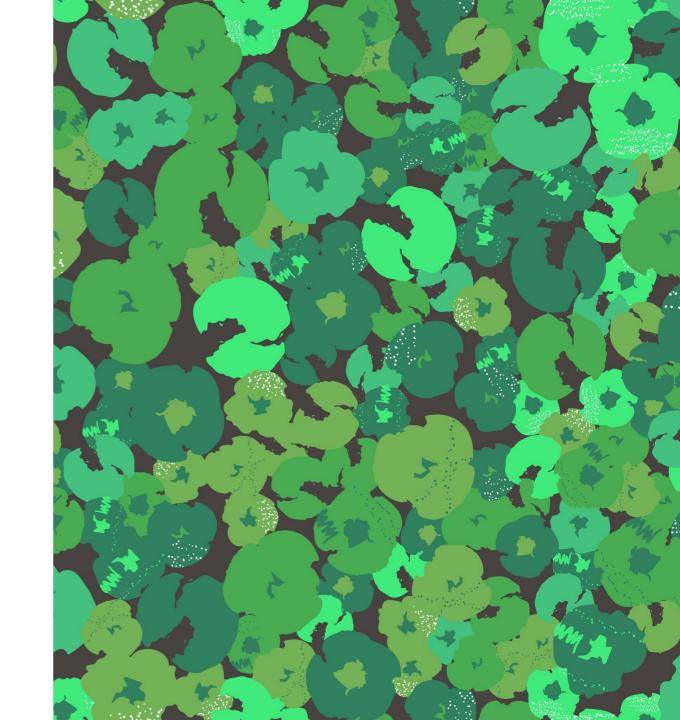
Creating Healing Environments for Maltreated and Highly Stressed Children

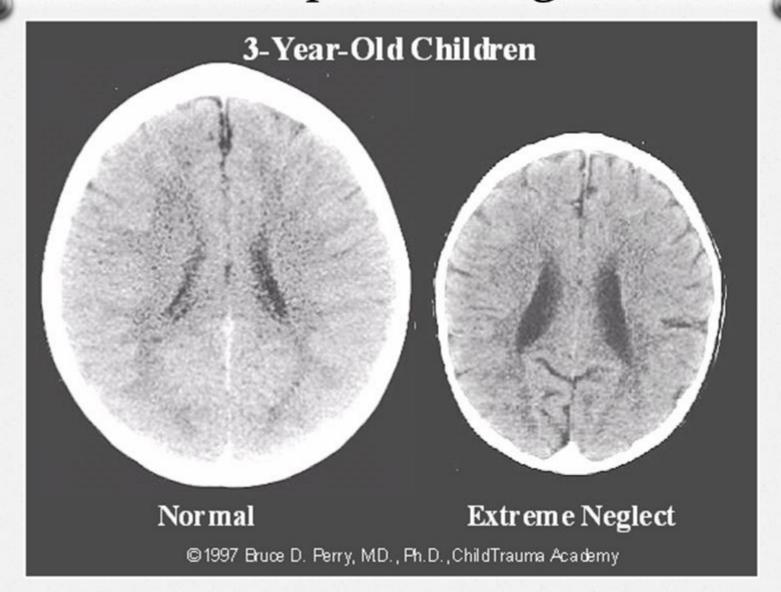
Dr. Barbara Sorrels

Connected Kids



Impact of Neglect

The impact of neglect



Definition of Trauma

- Trauma is defined as "any event that undermines a child's sense of physical or emotional safety or poses a threat to the safety of the child's parents or caregivers (Groves, 2002).
- Complex developmental trauma is defined by Bessel van der Kolk (2005) as "the experiences of multiple, chronic and prolonged, developmentally adverse traumatic events, most often of an interpersonal nature...and early life exposure."



What is the difference between severe stress and trauma?

- Changes the child's view of the world
- Changes the child's view of self
- Individuals develop coping strategies to deal with the internal pain
- Compromises capacity to experience joy, gratitude and pleasure

The ACE Study

Physical neglect

Emotional abuse

Emotional neglect

Sexual abuse

Physical abuse

- Divorce or separation
- Incarcerated parent
- Mentally ill or depressed household member
- Substance abuse
- Domestic violence

Beyond the ACE's

Prenatal exposure to alcohol and drugs

Prematurity

Difficult birth

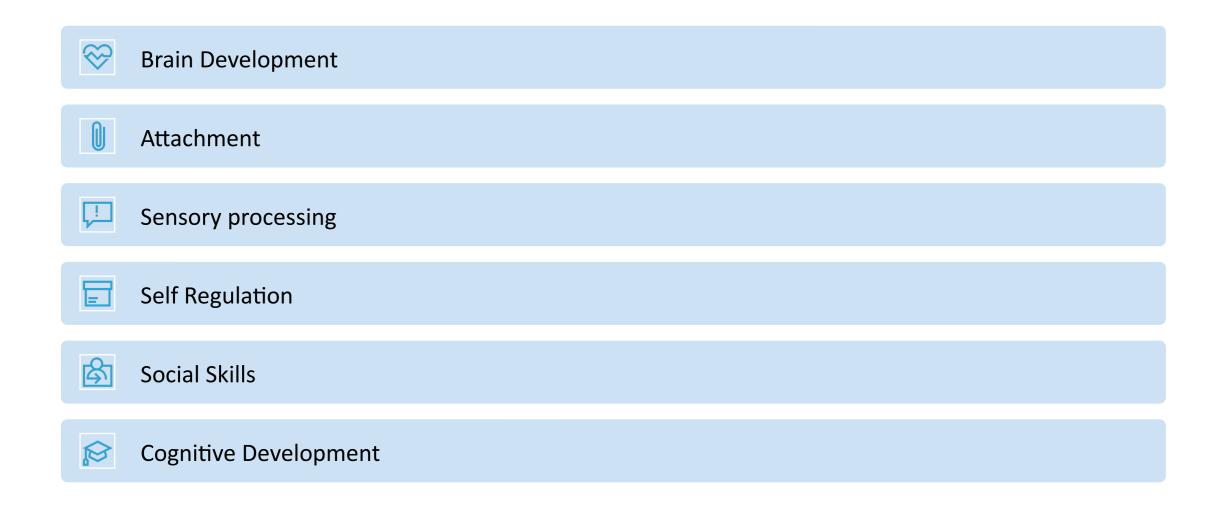
Early medical trauma

Post partum depression

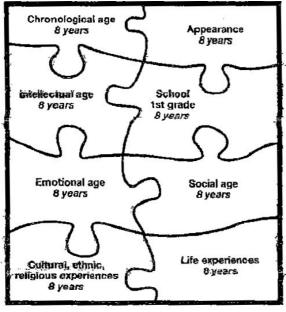
Deployment

- Surrogacy
- Witnessing violence
- Catastrophic injury
- Immigration
- Adoption/foster care
- Racial Discrimination
- Relational Poverty

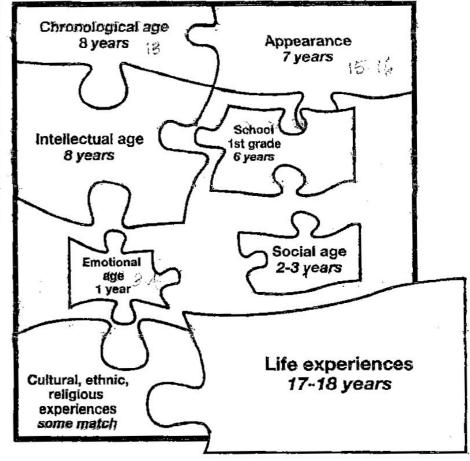
Trauma is a Multi-System Failure



Skewed Development



Vernon, age 8
with no developmental
concerns



Vernon, age 8 with developmental delays

Impact of
Trauma on the
Brain



Key Principles

- •The younger the child the more vulnerable the brain
- •Trauma during the prenatal period and in the first three years compromises the foundational architecture of the brain.



Indicators of Child Health (Gillian MacNamee)

- Eating
- Sleeping
- Toileting
- Playing



Healing
Environments are
Play-Based
Environments



What is "child like" or "child directed

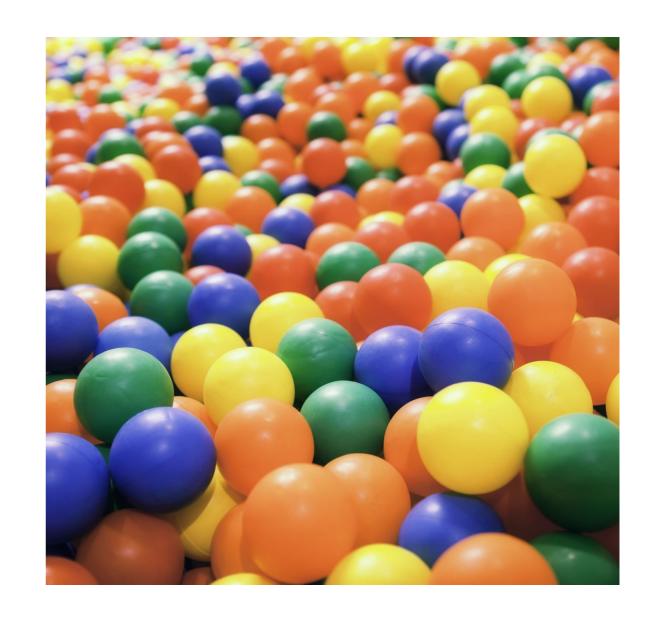
Freely chosen by the child

The sheer pleasure of the experience motives children to continue

There are unspoken rules created by the children

Why play?

- Play is neurodevelopmentally restorative
- Disarms fear—before children can explore the world, they must conquer their fears
- Practice social skills
- Creativity and imagination



Play and Resilience

Children learn to:

- Share
- Negotiate
- Resolve conflicts
- Learn self advocacy skills
- Decision making
- Take risks
- Make mistakes and fail in a safe environment
- Learn perseverance

Control of their World

- The only time children are in control of their world is in play.
- We must be careful of "adulterating" the experience
- Children from trauma need time and space to "sit in the experience"

The Power of Discovery (Gopnik, 2011)

- Children who were given unfamiliar materials to freely explore sustained the play longer and were more curious
- Children who were given a demonstration engage for shorter periods and were less curious



Play and Healthy Children



Healthy children are always playing or looking for the next opportunity to play.



It reinstates a sense of wholeness and well-being.

How does trauma impact play?

- Trauma and stress is restrictive, focused on self protection and confining; play is imaginative, expressive and expanding by nature.
- Children can become focused on winning and losing.
- Can become very repetitive and unimaginative.
- Control can become critical.
- Can become focused on rules.
- Struggle to get along with others.



Play is treatment in its purist form.

Types of Play

- Active, gross motor play
- Dramatic play
- Manipulative play
- Sensory play
- Rhythmic play
- Creative play

- Rough and tumble
- Construction
- Cause and Effect
- Language play
- Symbolic play
- Rules based play
- Closed ended play

Active Play

- "Brain derived neurotrophic factor" (BNF) or Miracle Grow
- Repairs the hippocampus which is the seat of short-term memory and information processing.

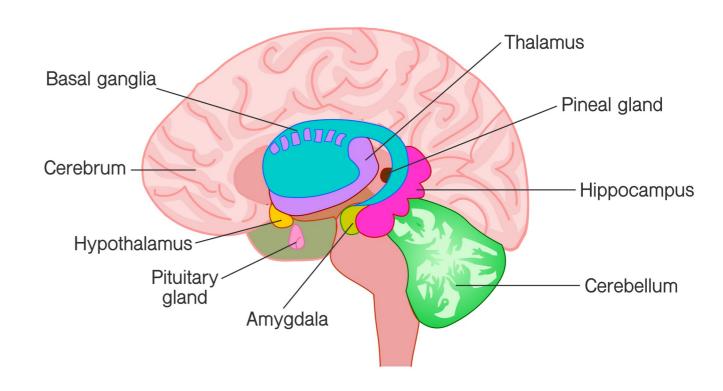


Hippocampus

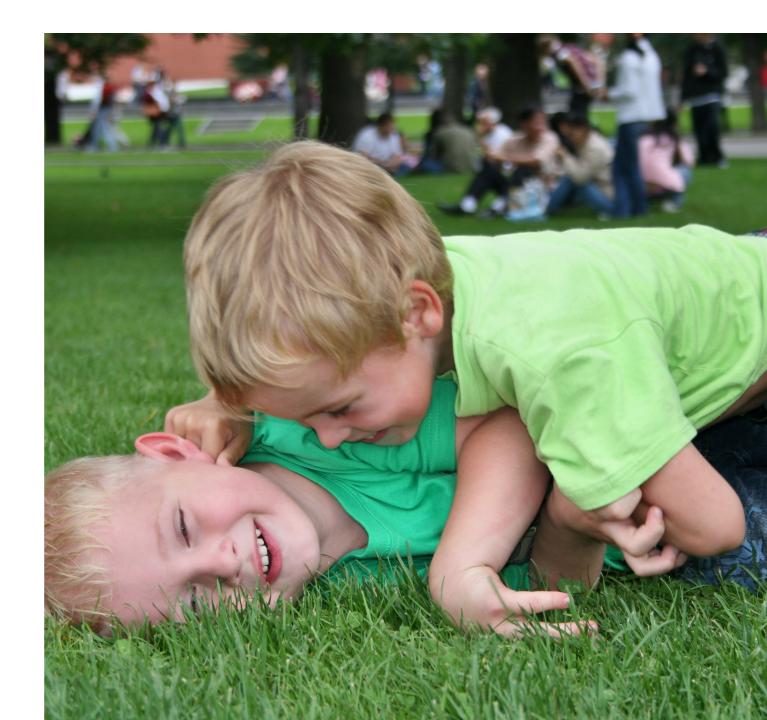
- Short term memory
- Information processing

- Boys vulnerable 0-7
- Girls vulnerable at 11, 12 and 15, 16

Brain Anatomy

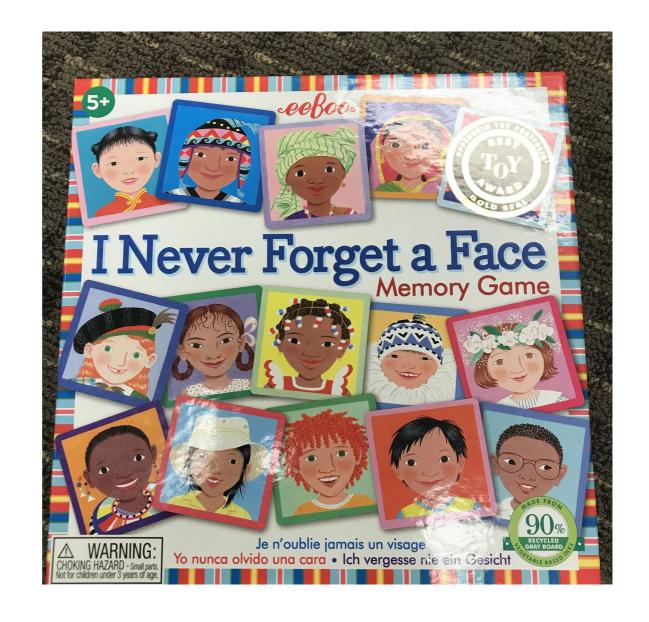


Rough and Tumble



Short Term Memory and Information Processing

- Memory games
- Visual cues



Dramatic Play

- Expression of innermost thoughts and deepest emotions.
- A way of processing strong emotions in a safe context.
- Cathartic
- Develops perspective taking.



The Power of Imitation

Children need rich life experiences to have things to imitate.

This is how they make sense of the world.



Doll House

• Dramatic play happens here

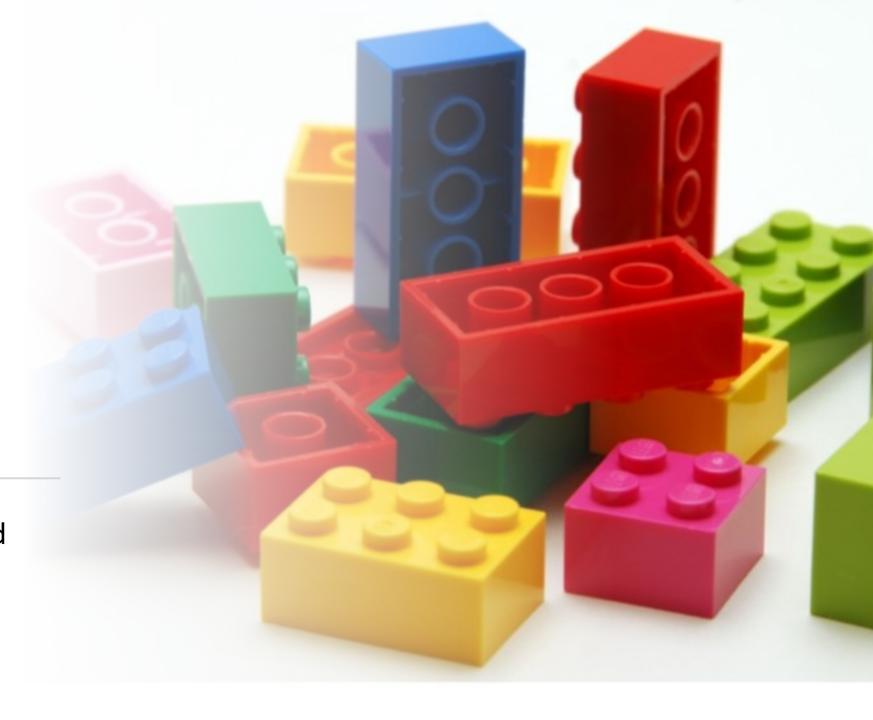


Language Play



Manipulative Play

Putting things together and taking them apart



Sensory Play

• The regulatory and sensory systems are profoundly impacted with trauma.

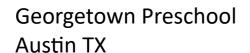


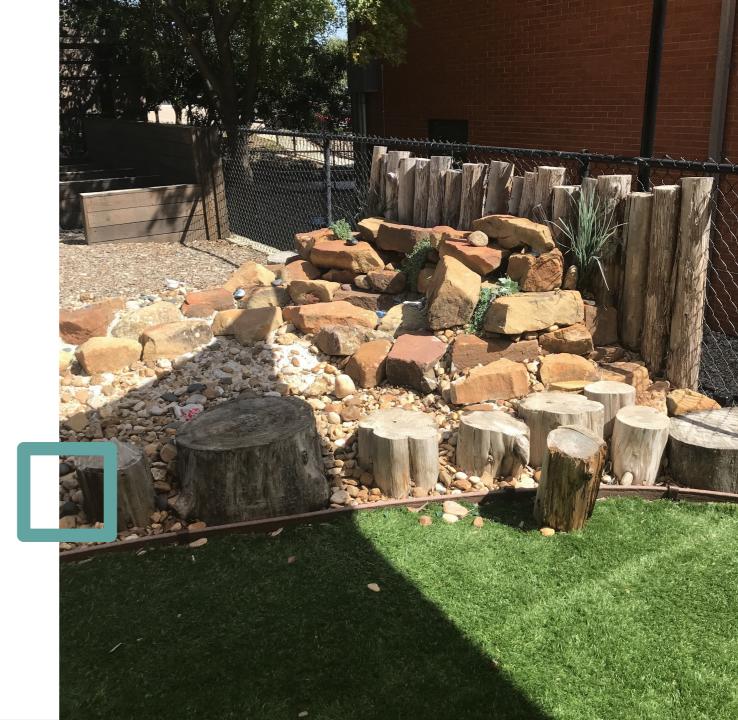
Variety of Materials

Georgetown Preschool Austin TX



Variety of Textures and Elevations





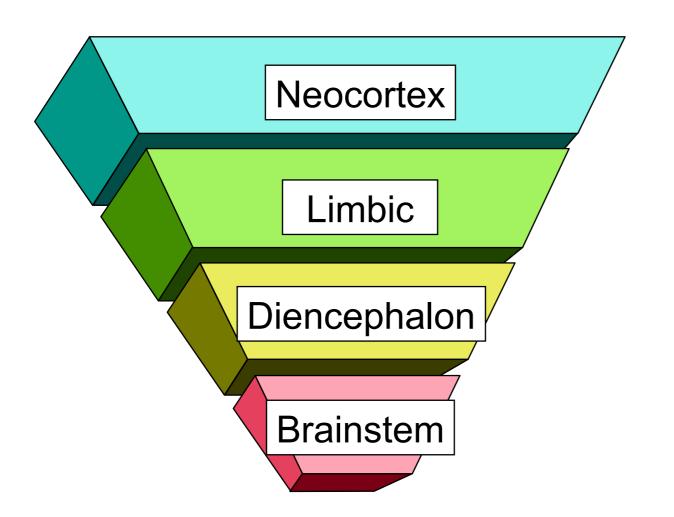
Rhythmic Play



Why Rhythm?







Abstract thought Concrete Thought **Affiliation** "Attachment" **Sexual Behavior Emotional Reactivity Motor Regulation** "Arousal" Appetite/Satiety Sleep **Blood Pressure Heart Rate Body Temperature**

Rocking Equipment

- Rocking chairs
- Rocking horses
- Rocking hammocks
- Rocking boats
- Glider rockers





Circle Games









Construction





Symbolic Play

- Loose parts
- Dramatic play



Cause and Effect

- Gears
- Levers
- Pulleys
- Pendulums
- Ramps



Hemispheric Integration



The Two Hemispheres of the Brain



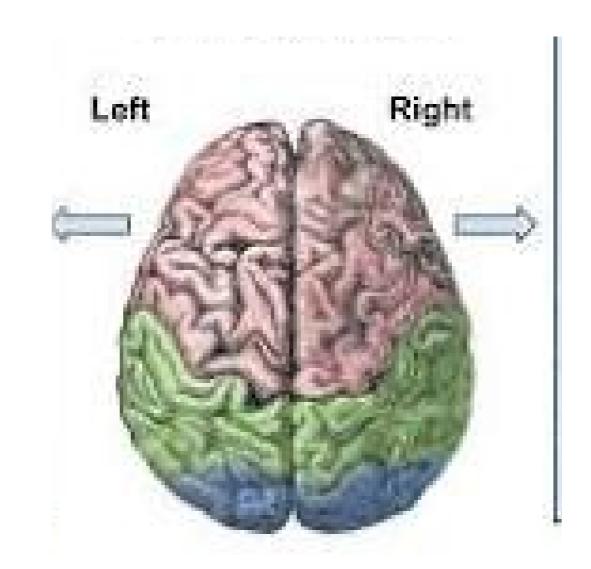
Logical

Language

Literal

- •Emotional
- Non-verbal
- Experiential
- Autobiographical
- •Holistic
- Big picture
- Meaning
- •Memories
- •Intuitive

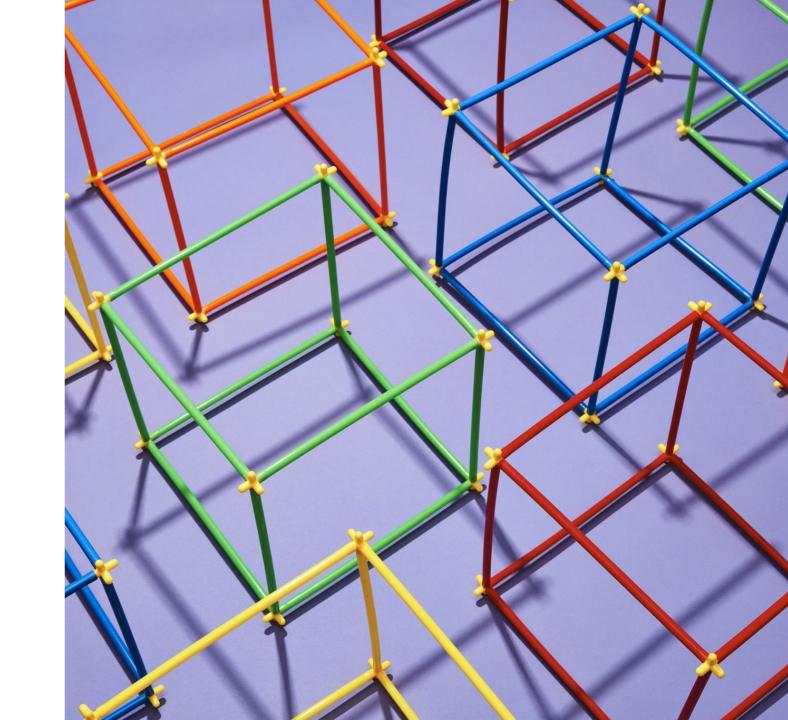
Corpus Callosum



Cause and effect

- Playful activities that manipulate variables and contingencies: pullies, pendulums, gears, levers, ramps
- Strategic board games
- Social interaction
- Cooking





Storytelling and Reading

Engages linear thinking, language, reasoning and emotions



Ramping System





Nature Play

Healing Power of Nature

- Reduces cortisol/stress
- Restores attention
- Sense of connection to the world
- Increases creativity
- Creation of awe and wonder



Building Connections

We amplify the joy and delight





Types of Nature Activities

- Naturalistic equipment
- Gardening
- Care of Animals
- •Nature focused art experiences



Play Is the Language of Connection