NAEYC

National Association for the Education of Young Children
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Strengthening Bonding and Attachment through Mutual Music Making

At-Risk Infants and Toddlers

for



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Raising Harmony: Music Therapy for Young Children

Learner Objectives

- Examine critical aspects in the development of attachment and bonding for infants and toddlers/grownups
- Identify music based elements present in bonding/attachment interactions

www.sproutingmelodies.com/NAEYC2016



www.musictherapy.org

www.raisingharmony.com





Music Therapy

Interventions through music experiences to support the opportunity for therapeutic growth and development.

Attachment

"... reduces a young child's fear in novel or challenging situations and enables the child to explore with confidence (so-called secure base behavior) and to manage stress..."

Neurons to Neighborhoods: The Science of Early Childhood Development
(Shonkoff & Phillips 2000, p 230)

Attachment

"... attachment relationships strengthen a young child's sense of competence and efficacy. The adult's contingent responding strengthens a young child's awareness of being able to influence others and affect the world..."

Neurons to Neighborhoods: The Science of Early Childhood Development
(Shonkoff & Phillips 2000, p 230)

Bonding

"A critical factor in the caregiving environment is the extent to which parents and other caregivers including teachers and mentors are warm and responsive in interacting with the child, utilize positive behavior management strategies, and provide a positive climate for growth and development."

Self-Regulation and Toxic Stress: Foundations for Understanding Self-Regulation from an Applied Developmental Perspective U.S. Department of Health and Human Services 2015

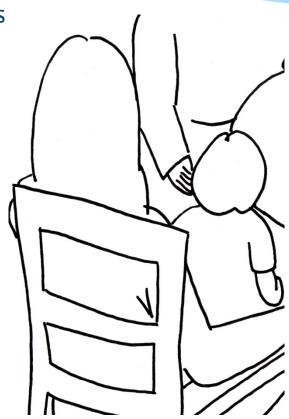
Bonding and Attachment For the Grownup and Child

- Responsiveness
- Consistency
- Persistence
- Acceptance
- Boundaries
- Safety
- Joint Awareness
- Joint Referral



Barriers to Bonding

- For the Grownup:
 - Situational Awareness
 - Roles and expectations
 - Environment
 - System requirements
 - Lack of Information
 - Development
 - Disability
 - Available assistance
 - Responsiveness
 - To the child
 - To the environment
 - To the system



Barriers to Attachment

- For the Child:
 - Difficulties with attention
 - Challenges with regulation
 - Lack of synchrony
 - Sensory avoidance
 - Delayed communication
 - Physical limitations
 - Cognitive limitations



Critical aspects in the development of grownup/child bonding and attachment

- Interactional synchrony
- Regulation
- Reciprocal communication
- Joint attention

Musical elements in bonding/attachment interactions

Rhythmic and movement matching

Intonation and inflection imitation

Shared awareness

- Shared meaning
- Shared structure
- Timbre reflection and response



Musical Characteristics of Bonding & Attachment

Mutual Focus

- Music engages shared focus and attention
- Music is processed in a unique way in the brain
- Music is a universally accessible experience

Movement Synchrony

- Melody and rhythm mirror movement action and flow
- Melody and rhythm provide motivation for movement
- Melody and rhythm provide flexibility in grading or changing mutual movement

Fostering Mutual Music Focus

Come On Let's Make Some Music

Adapted E.K. Schwartz



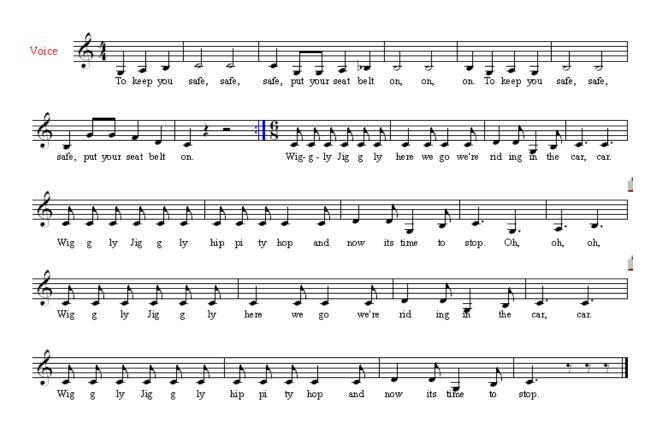


hands. Making music is fun. Alto gether or one by one. Come on let's make some music with our hands.

Fostering Movement Synchrony

Wiggly Jiggly Car

E.K. Schwartz



Musical Characteristics of Bonding & Attachment

Rhythmic Synchrony

- Rhythmic entrainment promotes mutual movement
- Rhythmic entrainment regulates physiological functions
- Rhythmic entrainment regulates emotional states

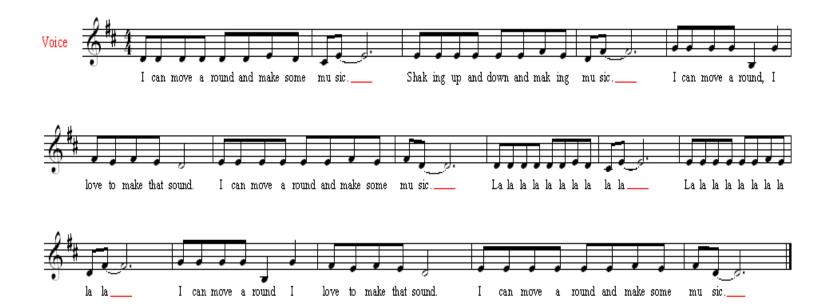
Reciprocity

- Musical structure fosters expectation for shared giveand-take
- Melodies support momentum toward response
- Rhythmic structure allows for suspension of sound while maintaining underlying organization

Fostering Rhythmic Synchrony

I Can Move Around

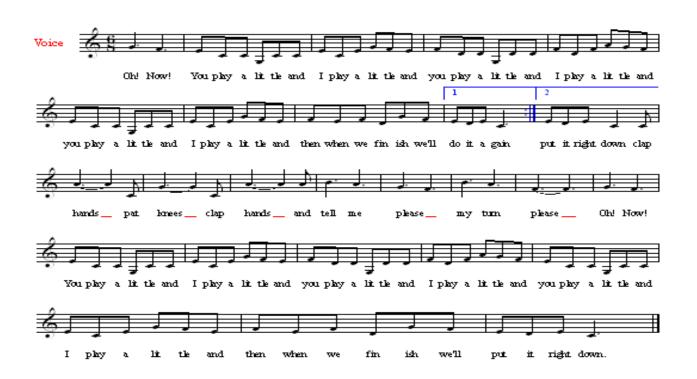
E.K.Schwartz



Fostering Reciprocity

YOU PLAY A LITTLE

E.K. Schwartz



Musical Characteristics of Bonding & Attachment

Timbre Response

- Timbre provides for unique identity identification
- Timbre changes reflect changes in emotional states
- Timbre matching communicates attention and reflection

Pitch and Melody Imitation

- Pitch and melody contain unique communicative meaning separate from language
- Pitch and melody imitation allows for communicative reciprocity
- Pitch and melody are maintained in memory and can be reproduced

Fostering Timbre Response

Music Is The Way

Elizabeth K. Schwartz

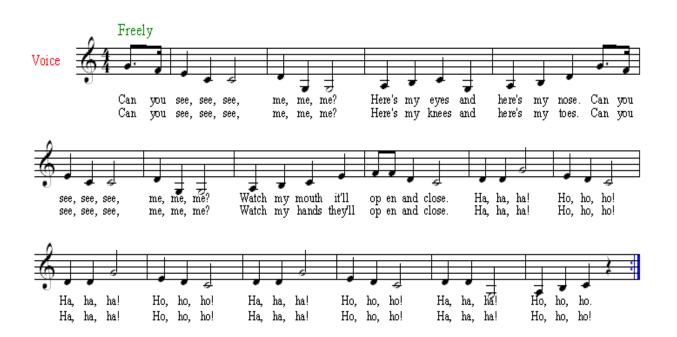
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Fostering Pitch and Melody Imitation

Can You See Me?

E.K. Schwartz



Musical Characteristics of Bonding & Attachment

Joint Referral

- Music exists as both an internal experience and an external experience that can be shared
- Music experiences become an object for shared attention for both grownup and child
- Music creates shared meaning and shared context

Shared Structure

- Musical structure organizes time
- Musical structure allows for reliable periods of shared attention
- Musical structure creates patterns of experience

Fostering Joint Referral

Sit Down and Join My Circle

Adapted E.K.Schwartz



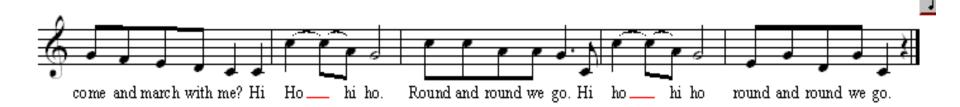
Fostering Shared Structure

Can You Follow?

Adapted E.K. Schwartz

Traditional Folk Tuni





THANK YOU!

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