



Listen and Talk[®]

Hear the Song, Sing Along: Incorporating Music in Daily Routines



Cole M. Bosas, M.A., CED, LSLS Cert. AVEd
nicholeb@listentalk.org

Why Sing?

- Singing provides infants with suprasegmental speech patterns from caregivers.
- Creates language learning opportunities.
- Singing can be apart of a family's culture.
- Supports development of natural speaking patterns.



Why Sing?

- It's a great way to bond with children.
- When combined with movement, singing supports vestibular development.
- Improves speech sounds, breath control, volume and rate.



Songs in Daily Routines

Add songs to things you're already doing:

- Putting on “brain access devices”
- Brushing teeth
- Shared Reading
- Bedtime/Swaying/Rocking
- Getting Dressed
- Diaper Changing



Checklist for Using Songs During Daily Routines:



- Did I use familiar melodies to make up my own song?
- Did I simplify the language or change the vocabulary to match my family's routine?
- Did I incorporate listening and spoken language strategies while singing (optimal positioning, auditory closure, repetition, etc.)?
- Did I select one specific aspect of speech to emphasize while singing (speech sounds, breath control, pitch, volume, rate, etc.)?

Putting on Brain Access Devices

Meet “Ed”

- 17 months old
- Hearing age: 5 months
- Becomes fussy when mom puts on hearing aids and glasses



Putting on Brain Access Devices- “Ed”



Brushing Teeth

“Gus”

- 9 months of age
- Bilateral mild sensorineural high frequency hearing loss
- Hearing age: 1 month



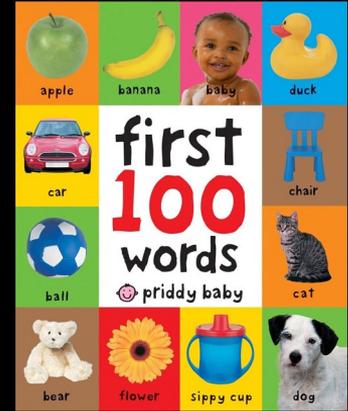
Brushing Teeth- “Gus”



Shared Reading

Ethel

- Ethel has Down Syndrome
- Unilateral hearing loss
- 21 months old
- Hearing age: 9 months



Shared Reading- Ethel



Bedtime/Swaying

- 3 months of age
- Hearing age: 2 months
- Parents have an analytic learning style



Bedtime

Table 2-1. Speech Information Carried by the Key Speech Frequencies of 250–4000 Hz (\pm one half octave)

250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
<ul style="list-style-type: none"> • First formant of vowels /u/ and /ʌ/ • Fundamental frequency of females' and children's voices • Nasal murmur associated with the phonemes /m/, /n/, and /ŋ/ • Prosody • Suprasegmental patterns (stress, rate, inflection, intonation) • Male voice harmonics • Voicing cues 	<ul style="list-style-type: none"> • First formants of most vowels • Harmonics of all voices (male, female, child) • Voicing cues • Nasality cues • Suprasegmentals • Some plosive bursts associated with /b/ and /d/ 	<ul style="list-style-type: none"> • The important acoustic cues for manner of articulation • Second formants of back and central vowels • Consonant-vowel and vowel-consonant transition information • Some plosive bursts • Voicing cues • Suprasegmentals • Unstressed morphemes 	<ul style="list-style-type: none"> • The important acoustic cues for place of articulation • The key frequency for speech intelligibility • Second and third formant information for front vowels • Consonant-vowel and vowel-consonant transition information • Acoustic information for the liquids /r/ and /l/ • Plosive bursts • Affricate bursts • Fricative turbulence 	<ul style="list-style-type: none"> • The key frequency for /s/ and /z/ audibility that is critical for language learning: <ul style="list-style-type: none"> – plurals – idioms – possessives – auxiliaries – third person singular verb forms – questions – copulas – past perfect • Consonant quality

Source: Adapted from *Speech and the Hearing Impaired Child* (2nd ed.) by D. Ling, 2002, Washington, DC: Alexander Graham Bell Association Deaf and Hard of Hearing. Reprinted with permission.

Songs

Bedtime



Getting Dressed

Hana

- Microtia and atresia of the left ear
- 12 months old
- Device retention is a challenge



Getting Dressed-Hana



Diaper Changing

Marna

- 4 months of age
- The movements in this song include things the physical therapist is also doing



Diaper Changing



Environmental Sounds

“Ed”

- 17 months old
- Hearing age: 5 months
- Family has a grandfather clock that goes off every 15 minutes



Environmental Sounds- “Ed”



The Sky's the Limit

Cruze

- 13 months old
- Hearing age: 10 months
- Mild to moderately-severe sensorineural hearing loss



Cruze



References

Cole, B. E. & Flexer, C. (2011). *Children with Hearing Loss Developing Listening and Talking*. San Diego: CA: Plural Publishing.

Estabrooks, W. & Birkenshaw-Fleming, L. (1994). Toronto Canada. Hear & Listen! Talk & Sing! (1994).

Hearing First Team. (2016, December 7). *2016 Winter Songs for Language and Literacy*. Retrieved from <https://hearingfirst.org/blog/2016/12/07/winter-songs-for-language-and-literacy>.



References Continued

Neurobiology of preschool beat synchronization Kali Woodruff Carr, Travis White-Schwoch, Adam T. Tierney, Dana L. Strait, Nina Kraus Proceedings of the National Academy of Sciences Oct 2014, 111 (40) 14559-14564; DOI:10.1073/pnas.1406219111

Parlakian, R. & Lerner, C. (2016, August 11). *Beyond Twinkle, Twinkle: Using Music with Infants and Toddlers*. Retrieved from <https://www.zerotothree.org/resources/1514-beyond-twinkle-twinkle-using-music-with-infants-and-toddlers>

