

Early Sound Development Quick Reference Tables

Table 1: The Emergence of the Sounds of Speech in Infancy.

Stage	Age (months)	Type
Stage 1: The Phonation Stage	0-1	Vowels, consonants, throaty sounds, and phonation with a closed mouth
Stage 2: The Goo Stage	2-3	Velar (/k/ and /g/) consonants
Stage 3: The Expansion Stage	4-6	Strong vowels, bilabial trills, squeals, growling
Stage 4: The Canonical Stage	7-10	Patterned, consonant-vowel combinations, reduplicated babble (mama), and non-reduplicated (ada)
Stage 5: The Variegated Babble Stage	11-12	Diverse babble (bada), gibberish, intonation

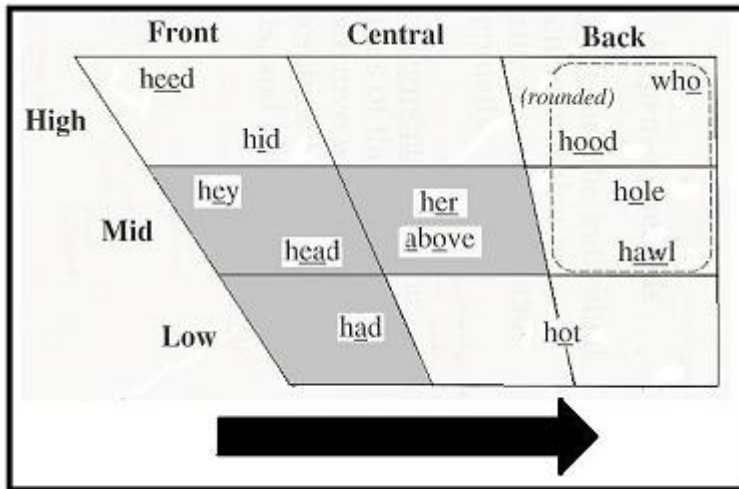
Note: Adapted from Oller (1980).

Table 2: Speech Development in the First Year.

Stage	Class	Type
1	Vegetative function	Crying, fussing, nasal (closed mouth) phonation
2	Cooing sounds	First voicing, pleasure, laughter, nasal sounds, velar sounds
3	Vocal play	Vocalic and consonant elements, frication, nasal murmurs
4	Mastery of speech-like activity	Babbling, controlled CV transitions, reduplicated and non-reduplicated sounds

Note: Adapted from Stark (1980).

Table 3: *Vowel Chart*

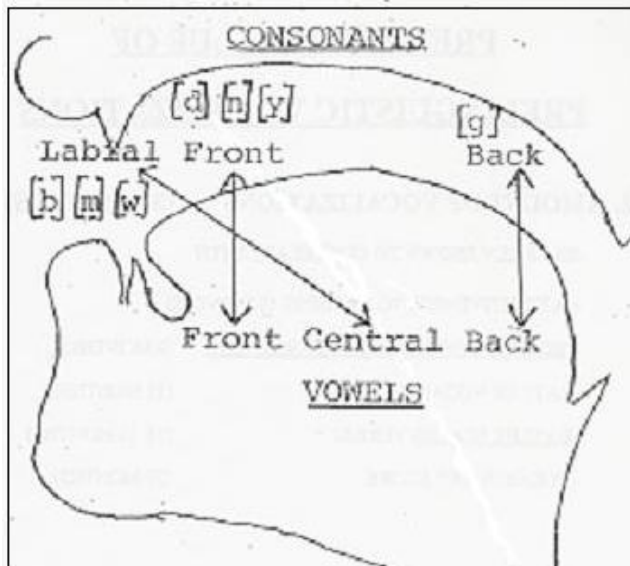


Indicates direction of acquisition over time.



Indicates most common vowels found in babbling.

Table 4: *Consonant Vowel Co-occurrence Constraints in Babbling.*



Note: From MacNeilage & Davis, (2000).

Table 5: Consonant Frequency.

This chart illustrates the percentage that each consonant was present during sound sampling.

More Frequent Consonants		Less Frequent Consonants		Note: From Locke (1983).
Sound	%	Sound	%	
h	31.77%	v	1.03%	
d	20.58	l	0.96	
b	9.79	θ	0.85	
m	6.69	z	0.56	
t	4.34	f	0.37	
g	4.15	ʃ	0.37	
s	3.45	ð	0.34	
w	3.39	ŋ	0.33	
n	2.65	ʒ	0.1	
k	2.12	r	0.1	
j	1.77	tʃ	0	
p	1.63	dʒ	0	
Totals	92.33%	Totals	5%	