

## Phonology Development

0 - 3 Months	3 - 6 Months	6 - 9 Months	9 - 12 Months
<ul style="list-style-type: none"> <li>• Birth cry – undifferentiated</li> <li>• Reflexive sound making produces glottal catch and vowels (ah, eh, uh)</li> <li>• Some variety in non-crying sounds</li> <li>• Differentiated cry (true vocal communication begins)</li> <li>• Coos and gurgles</li> <li>• Produces single syllables</li> <li>• Begins blowing bubbles</li> </ul>	<ul style="list-style-type: none"> <li>• Babbling begins Double syllables – VCV, aga Puts lips together – says “m” Nasal tone is heard</li> <li>• Vocalizes pleasure and displeasure</li> <li>• Stops vocalizing when adult enters</li> <li>• Self-initiated vocal play</li> <li>• Coos, chuckles, gurgles and laughs</li> <li>• Babbles to self, others, and objects</li> <li>• Babbling show pitch and inflection change</li> <li>• Vocally expresses eagerness</li> </ul>	<ul style="list-style-type: none"> <li>• Uses m, n, t, d, b, p, y in babbling multiple syllables</li> <li>• Babbles tunefully – singing tones</li> <li>• Uses wide variety of sound combinations including non-English sounds</li> <li>• Inflected vocal play – intonation patterns heard</li> <li>• Imitates intonation and speech sounds in his/her own repertoire</li> <li>• Reduplicative babbling begins – bababa</li> </ul>	<ul style="list-style-type: none"> <li>• Vocalizes during play</li> <li>• Vocalizes to mirror</li> <li>• Jabbers loudly – wide variety of sounds and intonations</li> <li>• Uses most sounds (C&amp;V) in vocal play – beginning of phonetic drift</li> <li>• May acquire first true word –0-18 months</li> <li>• Variegated babbling begins – combines different syllables in vocal play</li> </ul>
1 – 1½ Years	1 ½ - 2 Years	2- 2 ½ Years	2½- 3 Years
<ul style="list-style-type: none"> <li>• Uses sentence-like intonations (jargon)</li> <li>• Some echolalia</li> <li>• Uses most vowels and consonants and some initial consonants</li> <li>• Basically unintelligible with exception of a few words</li> <li>• Omits final consonants and some initial consonants</li> <li>• Words produced with VC structure (bo/boat) emerge)</li> <li>• Accurately imitates some words</li> </ul>	<ul style="list-style-type: none"> <li>• Words increasing in frequency – jargon almost gone by 2 years</li> <li>• Asks questions by raising intonation at end of phrase.</li> <li>• Improvement in intelligibility – now approximately 65% intelligible by 2 years</li> <li>• Appearance of words produced with CVC structure (hot)</li> </ul>	<ul style="list-style-type: none"> <li>• Approximately 70% intelligible</li> <li>• May omit final consonant, reduce consonant blends; substitute one consonant for another</li> </ul>	<ul style="list-style-type: none"> <li>• Still some substitutions and distortion of consonants</li> <li>• Continuing to improve intelligibility – now approximately 80% intelligible</li> <li>• Consonants mastered: p, m, n, w, h</li> </ul>
3- 3½ Years	3 ½ - 4 Years	4- 4 ½ Years	4½- 5 Years
<ul style="list-style-type: none"> <li>• Uses final consonants most of time</li> <li>• Phonological processes disappearing by age 3: consonant assimilation, diminutization, doubling, final consonant deletion, prevocalic voicing, reduplication, unstressed syllable deletion, velar fronting</li> </ul>	<ul style="list-style-type: none"> <li>• Becoming very intelligible in connected speech</li> <li>• Continued refinement of articulatory skills taking place</li> <li>• Consonants mastered: b, d, k, g, f, y</li> <li>• Phonological processes continuing after age 3: cluster reduction, deplatalization, epenthesis, final devoicing, gliding, stopping, vocalization</li> </ul>	<ul style="list-style-type: none"> <li>• Should be few omissions and substitutions of consonants</li> <li>• Very intelligible in connected speech</li> </ul>	<ul style="list-style-type: none"> <li>• Most consonant sounds used consistently and accurately, though may not be mastered in all contexts</li> <li>• More errors present in difficult blends</li> </ul>
5- 6 Years	6 – 7 Years		
<ul style="list-style-type: none"> <li>• Consonants mastered: t, ing, r, l</li> </ul>	<ul style="list-style-type: none"> <li>• Consonants mastered: voiceless th, sh, ch, j (by 8 years, voiced th, v, s, zh are mastered)</li> </ul>		

From: Speech and Language Development Chart (2<sup>nd</sup> Ed.) by Addy Gard, Leslea Gilman, and Jim Gorman, Pro-Ed.

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