SPEECH SOUND ACQUISITION

Speech sound norms were taken from the Goldman Fristoe Test of Articulation-3 (2.106). This table shows the ages at which 90% of the GFTA-3 normative sample mastered consonants and consonant clusters.

MALES

Age	Initial Sound	Medial Sound	Final Sound
2	/m/	/p/	
3	/b/ /d/ /n/ /f/ /h/ /k/ /w/	/d/ /g/ /m/ /ng/ /f/ /n/ /z/ /y/	/p/ /n/ /f/ /b/ /d/ /k/ /m/ /nt/
4	/t/ /kw/ /s/ /sh/ /ch/ /j/	/b/ /k/ /sh/ /ch/	/g/ /v/ /t/ /sh/ ch/
5	/p/ /z/ /l/ /y/ /bl/ /pl/ /sp/ /st/ /sw/	/s/ /l/	/ng/ /z/
6	/g/ /v/ /dr/ /gl/ /gr/ /kr/ /tr/	/r/	
7	/th/ (voiced) /r/ /br/ /fr/ /pr/ /sl/	/v/	/er/ /l/ /r/
8		/t/ /th/ (voiced) /j/ /br/	/th/ (voiceless) /s/
9+	/th/ (voiceless)		

FEMALES

Age	Initial Sound	Medial Sound	Final Sound
2	/m/	/p/	
3	/b/ /d/ /k/ /n/ /w/ /h/ /f/	/d/ /g/ /m/ /n/ /f/	/p/ /n/
4	/t/ /sp/ /st/ /ch/ /j/ /l/ /y/ /fr/ /gl/ /pl/ /tr/	/b/ /k/ /ng/ /z/ /y/ /ch/ /l/	/d/ /k/ /m/ /f/ /v/ /nt/ /b/ /t/ /g/ /sh/ /ch/
5	/p/ /s/ /z/ /sh/ /bl/ /dr/ /kw/ /pr/ /sl/ /sw/	/sh/	/s/ /l/
6	/v/ /th/ (voiced) /r/ /br/ /gr/ /kr/	/v/ /s/ /j/ /r/ /br/	/er/ /ng/ /z/ /r/
7	/g/ /th/ (voiceless)	/t/ /th/ (voiceless)	/th/ (voiceless)

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