

# Speech Sound Development Chart

SPEECH SOUND NORMS ADAPTED FROM THE GOLDMAN FRISTOE TEST OF ARTICULATION-3 (2015)

Ages of which 90% of the normative sample correctly pronounce consonant sounds

	AGE	INITIAL SOUND IN WORD	MIDDLE SOUND IN WORD	LAST SOUND IN WORD
<b>FEMALE</b>	2:0-2:5		/p/	
	2:6-2:11	/m/		
	3:0-3:5	/b/ /d/ /k/ /n/ /w/ /h/	/d/ /g/ /m/ /n/ /f/	/p/
	3:6-3:11	/f/		/n/
	4:0-4:5	/t/ /sp/ /st/	/b/ /k/ /ng/ /z/ /y/	/d/ /k/ /m/ /f/ /v/ /nt/
	4:6-4:11	/ch/ /j/ /l/ /y/ /fr/ /gl/ /pl/ /tr/	/ch/ /l/	/b/ /t/ /g/ /sh/ /ch/
	5:0-5:11	/p/ /s/ /z/ /sh/ /bl/ /dr/ /kw/ /pr/ /sl/ /sw/	/sh/	/s/ /l/
	6:0-6:11	/v/ /r/ /br/ /gr/ /kr/ /th/ (voiced)	/v/ /s/ /j/ /r/ /br/	/er/ /ng/ /z/ /r/
	7:0-7:11	/g/ /th/ (voiceless)	/t/ /th/ (voiced)	/th/ (voiceless)
	8:0-8:11			

	AGE	INITIAL SOUND IN WORD	MIDDLE SOUND IN WORD	LAST SOUND IN WORD
<b>MALE</b>	2:0-2:5			
	2:6-2:11	/m/	/p/	
	3:0-3:5	/b/ /d/ /f/ /n/ /h/	/d/ /g/ /m/ /ng/ /f/	/p/ /n/ /f/
	3:6-3:11	/k/ /w/	/n/ /z/ /y/	/b/ /d/ /k/ /m/ /nt/
	4:0-4:5	/t/ /kw/	/b/ /k/	/g/ /v/
	4:6-4:11	/s/ /sh/ /ch/ /j/	/sh/ /ch/	/t/ /sh/ /ch/
	5:0-5:11	/p/ /z/ /l/ /y/ /bl/ /pl/ /sp/ /st/ /sw/	/s/ /l/	/ng/ /z/
	6:0-6:11	/g/ /v/ /dr/ /gr/ /gl/ /kr/ /tr/	/r/	
	7:0-7:11	/r/ /br/ /fr/ /pr/ /sl/ /th/ (voiced)	/v/	/er/ /l/ /r/
	8:0-8:11		/t/ /j/ /br/ /th/ (voiced)	/s/ /th/ (voiceless)
	> 8:11	/th/ (voiceless)		