

Sound Development Chart

Age at which 90% of females have acquired each phoneme and word-initial cluster

Phoneme	yrs:mo	3:0	3:6	4:0	4:6	5:0	5:6	6:0	6:6	7:0	7:6	8:0	8:6	9:0
m														
h initial														
w initial														
p														
b														
d														
f														
k														
g														
n														
j initial y														
t														
th voiced														
l														
f final														
v														
sh														
ch														
I final														
th														
dz j														
r														
r final voiced														
ng final														
s														
z														

Word-initial clusters	3:0	3:6	4:0	4:6	5:0	5:6	6:0	6:6	7:0	7:6	8:0	8:6	9:0	
tw kw														
pl bp kl gl fl														
pr br tr dr kr gr fr														
sp st sk														
sm sn														
sw														
sl														
skw														
spl														
spr str skr														
thr														

Source: Smit, Et. Al

"The Iowa Articulation Norms Project and Its Nebraska Replication"
 Journal of Speech and Hearing Disorders
 Volume 55, 779-798, November, 1990

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