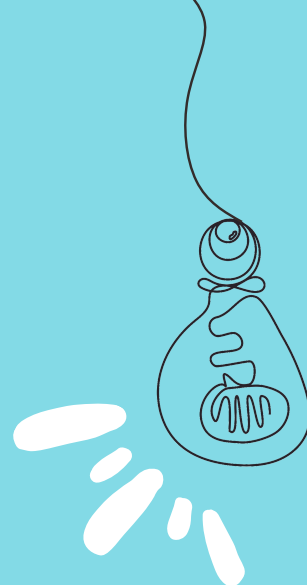


SPEECH SOUND DEVELOPMENT

Crowe & McLeod, 2020



6-7 years

th (voiceless)

5-6 years

r, zh, th (voiced)

4-5 years

v, j, s, ch, l, sh, z

3-4 years

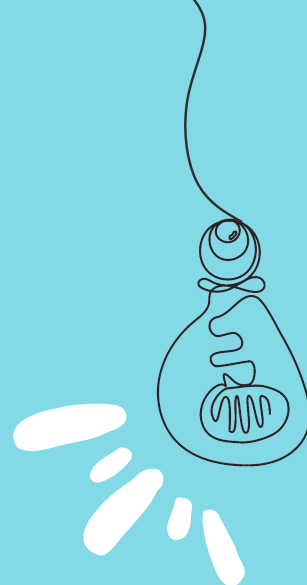
g, k, f, t, ng, y

2-3 Years

b, n, m, p, h, w, d

SPEECH SOUND DEVELOPMENT

Crowe & McLeod, 2020



IPA VERSION



6-7 years

/θ/

5-6 years

/ɹ, ʒ, ð/

4-5 years

/v, dʒ, s, tʃ, l, ʃ, z/

3-4 years

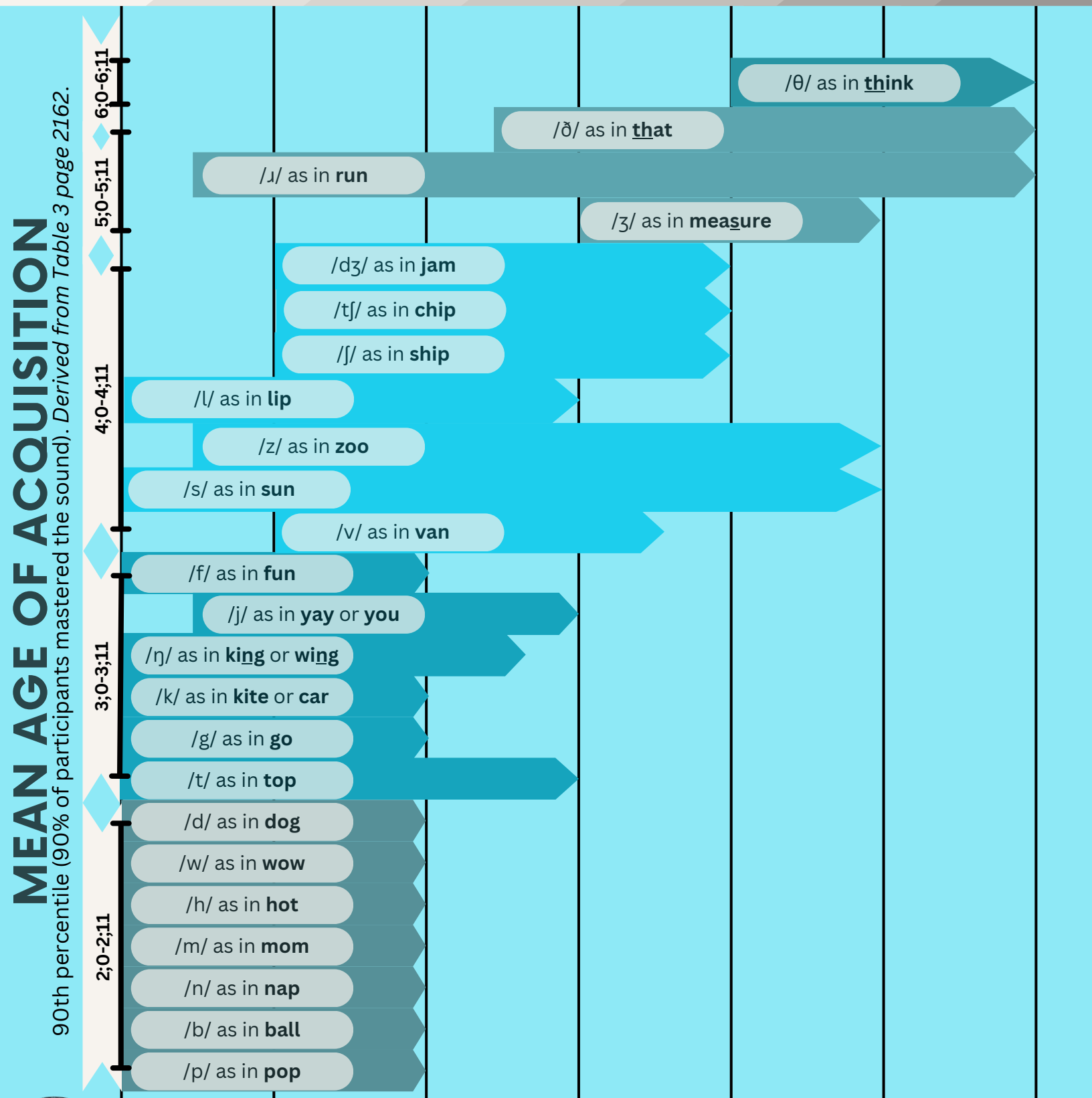
/g, k, f, t, ŋ, j/

2-3 Years

/b, n, m, p, h, w, d/

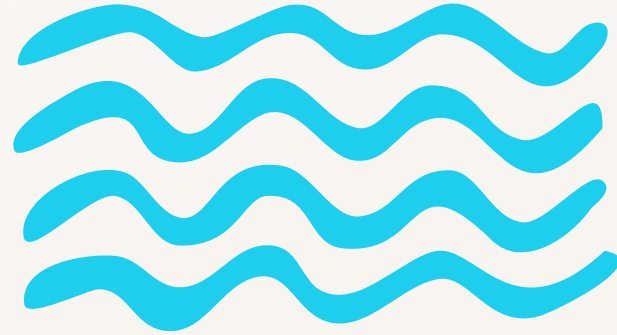
AVERAGE RANGE OF ACQUISITION

90th percentile (90% of participants mastered the sound). Derived from Table 2 page 2161.



SPEECH SOUND DEVELOPMENT

Crowe & McLeod, 2020



EARLY

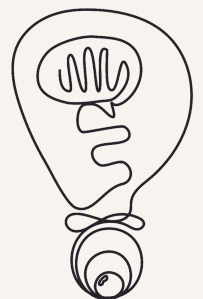
**b, p, n, m,
d, h, w, t, k,
g, f, ng, y**

MIDDLE

**v, j, l, ch, s,
sh, z**

LATE

zh, r, th
(voiced and
voiceless)

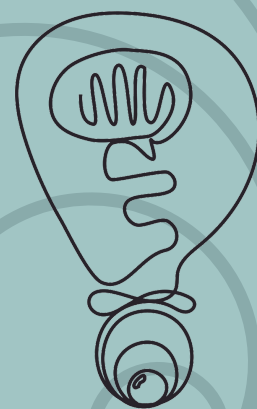
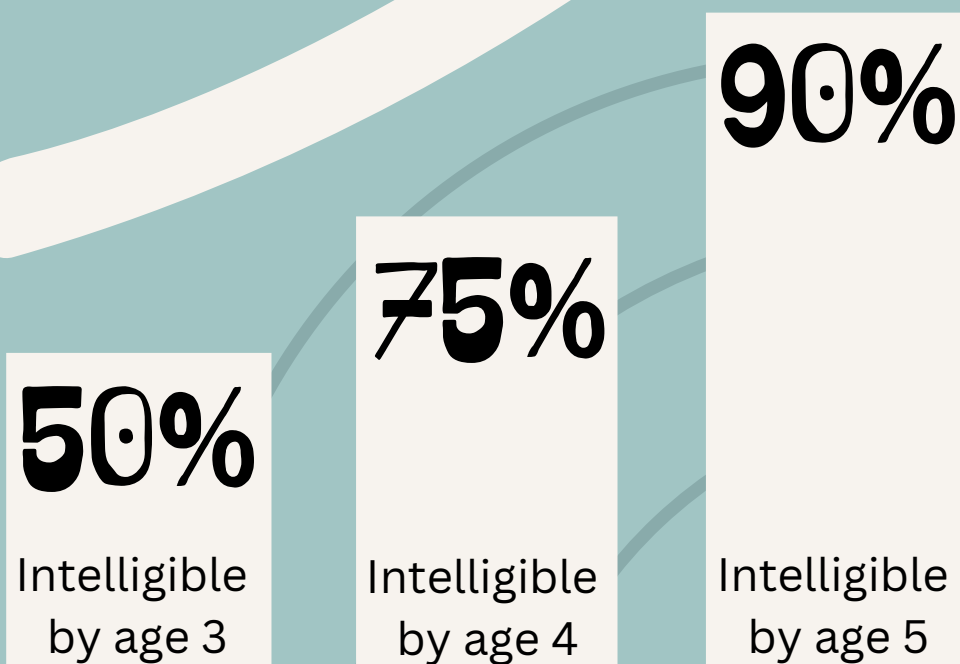


SPEECH INTELLIGIBILITY

HOW MUCH OF WHAT YOUR CHILD SAYS SHOULD FAMILIAR AND UNFAMILIAR LISTENERS BE ABLE TO UNDERSTAND?

Hastad et al. 2021

ON AVERAGE, MULTIWORD UTTERANCES SHOULD BE:

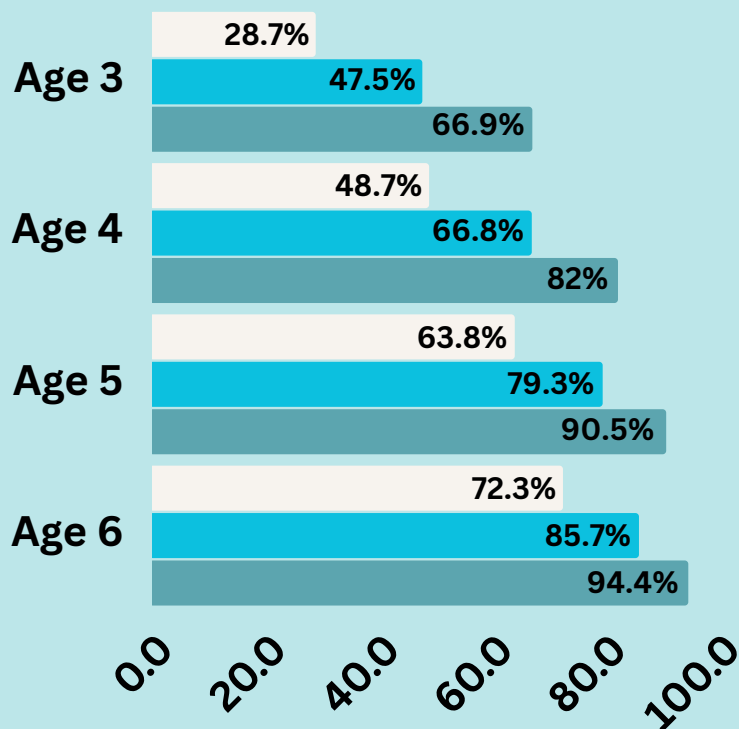


SPEECH INTELLIGIBILITY

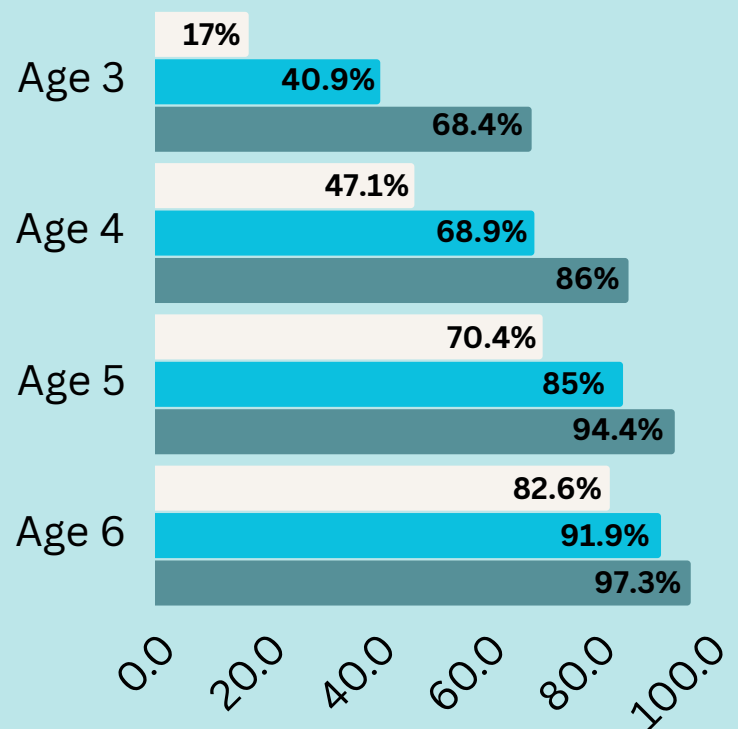
SINGLE WORD AND SENTENCE LEVEL INTELLIGIBILITY ARE DIFFERENT. THIS IS BECAUSE AS A CHILD GETS OLDER THEIR SENTENCES PROVIDE CONTEXT TO THE LISTENER TO HELP THEM UNDERSTAND BETTER - EVEN IF A CHILD DOES NOT YET HAVE ALL THEIR SOUNDS! THEY MAY ALSO HAVE MORE COMMUNICATION SKILLS TO EFFECTIVELY COMMUNICATE THEIR MESSAGE!

Hastad et al. 2021

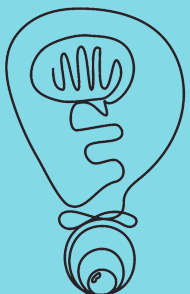
SINGLE WORD



sentences



10th percentile 50th percentile 90th percentile



Hustad, K. C., Mahr, T. J., Natzke, P., & Rathouz, P. J. (2021). Speech development between 30 and 119 months in typical children I: Intelligibility growth curves for single-word and Multiword Productions. *Journal of Speech, Language, and Hearing Research*, 64(10), 3707-3719. https://doi.org/10.1044/2021_jslhr-21-00142