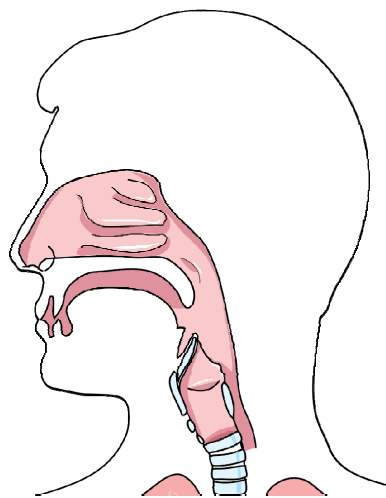


Phoneme Acquisition

Cardinal Consonants and Vowels

Babbling

- The cardinal stops:
 - p b m
 - t d n
 - k g
- The cardinal vowels:
 - i
 - a ʌ
 - u



Hand: Noedelhap/iStock/Thinkstock; Side of Head: LifeArt Super Anatomy Collections 1-9. Williams & Wilkins 1998.

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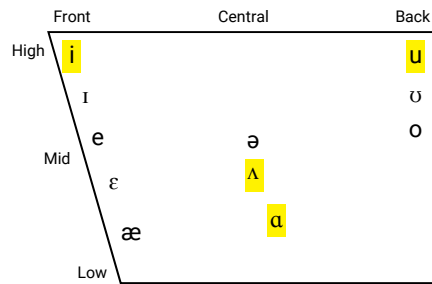
- i
- a ʌ
- u

- Other sounds:

- s h w j

- Rare and/or late:

- f v θ ð ʃ ʒ tʃ dʒ l r ŋ



Hand: Noedelhap/iStock/Thinkstock; Side of Head: LifeArt Super Anatomy Collections 1-9. Williams & Wilkins 1998.

Consonant Progression

stops ➡ fricatives ➡ glides ➡ liquids ➡ affricates

Hand: Noedelhap/iStock/Thinkstock

Consonant Progression

She can say:

- Oriana: [oriːɹjna]
↑
pronounces this phoneme clearly
- Car: [kaw]
- Truck: [twʌks]

What do people drive in?

kawz and twʌks



stops ➡ fricatives ➡ glides ➡ liquids ➡ affricates

Hand: Noedelhap/iStock/Thinkstock; Oriana and Randy: University of Waterloo

Consonant Progression

Consonant Cluster Aversion

- Drop most problematic consonant
 - fricatives
 - liquids
 - nasals
- Use easiest consonant
 - stops



Baby: Bullet_Chained/iStock/Thinkstock

Substitutions

stops ➡ fricatives ➡ glides ➡ liquids ➡ affricates

fricatives

liquids

nasals



Hand: Noedelhap/iStock/Thinkstock; Baby: Bullet_Chained/iStock/Thinkstock

Substitutions

- Proto-words (Galen, 15 mo.)

Word	Pronunciation	Context
oh-hoh	oʔho	said when something mysterious happened
fffff	ffffʔ	said when food needed cooling
ow!	auw	said when his anatomy encountered hard objects
whoosh!	wʌʃ	said when sneezes and flushing toilets
Oh?	ʔo	said when humouring parents
num-num	nʌmnmʌm	said of gastronomic pleasure
thank-you	ʌm	said in receipt of object
Uh-huh	ʌhʌ	said in bored agreement
wow!	wauw	said in appreciation of the wonders of the universe

Suprasegmentals and Iconicity

- He's b-a-a-A-A-A-a-d, papa. That beetle's b-a-a-A-A-A-a-a-d! (23 mo.)
- I want to go outs-i-i-i-l-l-l-i-i-i-de! (22 – 25 mo.)
- I want Strawbe-e-e-E-E-E-e-e-e-ries! (24 mo.)
- No-o-o-O-O-O-o-o-o! (a lot, c20 – 26 mo.)
- DeedeedeedeedeedeedeedeedeedeetABLE (22 mo.)
- L-l-l-et's go outside (24 mo.)

Indexical: In the sense that intonation patterning is caused by emotional state

Iconic: In the sense that intonation is exaggerated to convey emotional state