

Programming Solutions for Speech Therapy

Ben Lambright








1.

Definitions and Research





Speech Sound Disorders

The inability to say a speech sound

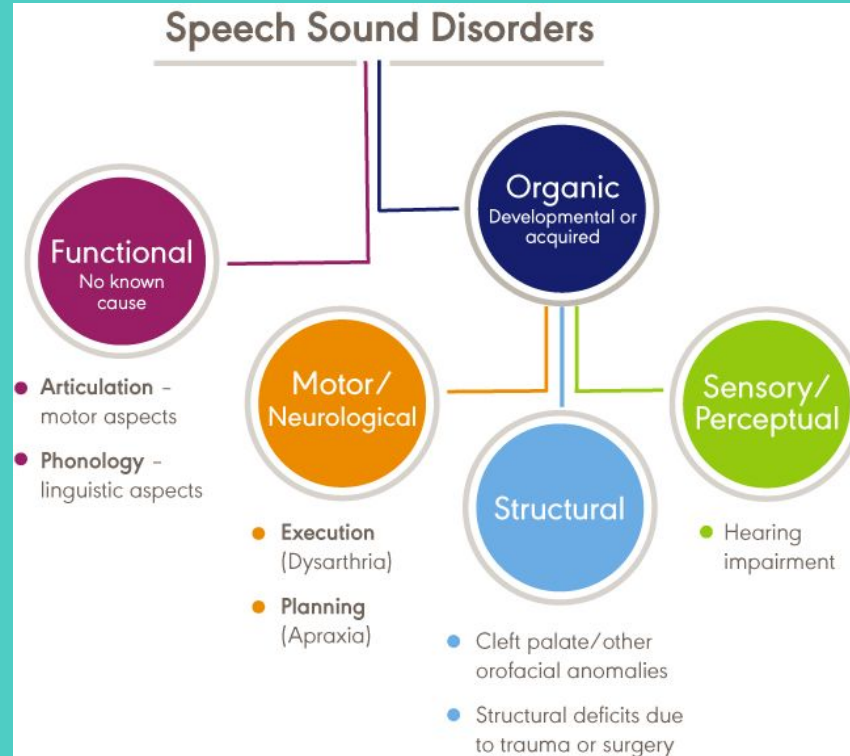
1 i bean many	8 u moon you	12 Iə dear	17 ʊə curious	<h1>English Sound Chart</h1> <div>  Long & Short  Long  Voiceless Sound  Voiced Sound  Sound Variation </div>		
2 I tip	5 ə sir the	9 ʊ shook	13 eɪ same		15 əʊ go	18 ɔɪ choice
3 ɛ hair met	6 ʌ fun	10 ɔ shore	14 aʊ loud		16 ʌɪ hide	
4 a pan	7 ɑ card	11 ɒ lock				

19 f first	21 θ thick	23 s saw	25 ʃ she	27 h hard	28 p pick	30 t team	32 k code	34 ? witness	35 tʃ choose
20 v van	22 ð these	24 z zen	26 ʒ casual		29 b bed	31 d dine	33 g get		36 dʒ jet

37 w watch	38 r rug	39 j yet	40 l look	41 t tall	42 m mode	43 n neck	44 ŋ song	  ? thesoundofenglish.org

Speech Sounds

The basic sounds that make up language



“phonological disorders focus on predictable rule-based errors [in pronunciation]”



Meet John



Helping John



2.

My Prototype

Words similar to “dog”

Requirements:

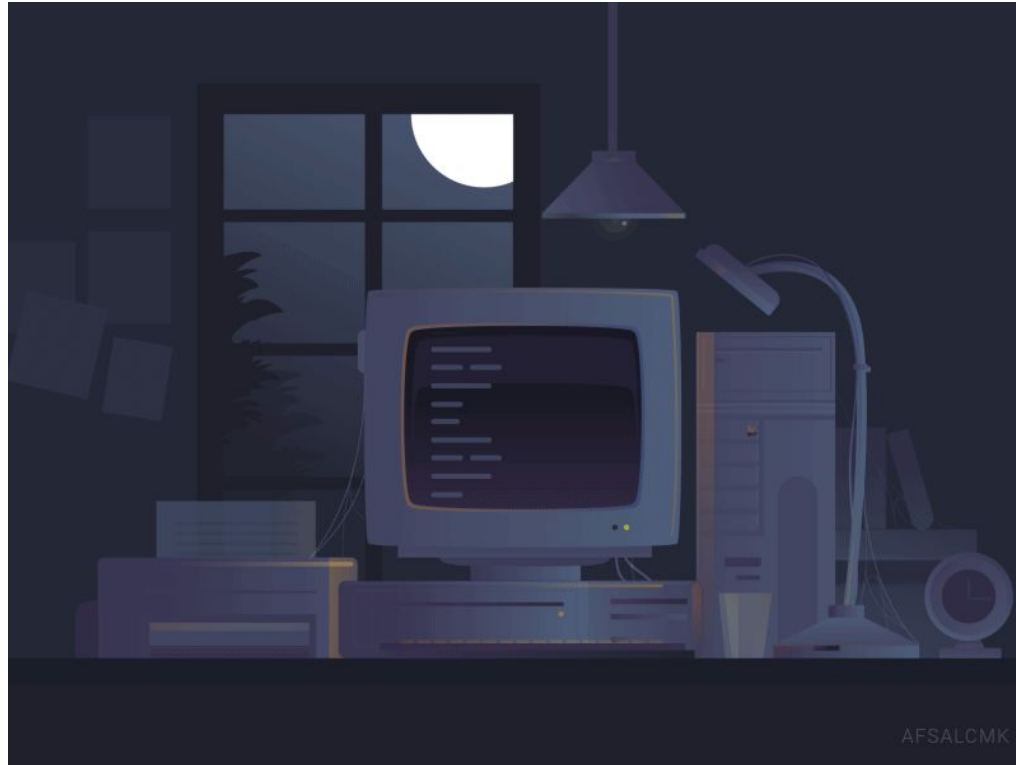
- Fit for the age group
- Have a sound like /d/

“doll,” “dad”, “sit”, “tell”, “Ben”





My Prototype



A List of Appropriate Words: “Klist”

- 445 words
- Majority from the Dolch and Fry sight word lists
- The remaining are names and characters from children’s tv shows

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Primer Dolch Sight Words

all	into	that
am	like	there
are	must	they
at	new	this

First Hundred Sight Words (Fry)

can	her	many	see
come	here	me	she
day	him	much	so
did	his	my	some

Searching for the Right Sounds

PVM Chart: English

			PLACE							
			LABIAL		CORONAL				DORSAL	
			Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Palatal	Velar	Glottal
OBSTRUENTS	MANNER	VOICING								
		Stop								
		Voiceless	p			t			k	ʔ
		Voiced	b			d			g	
	Fricative	Voiceless		f	θ	s	ʃ			h
		Voiced		v	ð	z	ʒ			
SONORANTS	MANNER	VOICING								
		Affricate								
		Voiceless					tʃ			
		Voiced					dʒ			
	LIQUID	Nasal	Voiced	m			n		ŋ	
		Lateral	Voiced				l			
		Rhotic	Voiced				ɹ			
	Glide		Voiced	w				j	w	

My Phonological Processes

- Backing
- Fronting
- Gliding
- Stopping
- Vowelization
- Affrication
- Deaffrication
- Alveolarization
- Depalatalization
- Labialization
- Denasalization

Without Further Ado...



3.

Final Thoughts

8-9%

Percentage of young children in the US with speech sound disorders

67.6%

Percentage of children with these disorders who have received treatment

48:1

Median caseload size of students per speech language pathologist

Acknowledgements

- ▣ Ardith Kirchberger, Amy Lister, and SNHH
- ▣ Stack overflow
- ▣ Tim Bilick
- ▣ Dan Lambright

Sources

(in the speaker notes)