

# Arizona™-4

## Arizona Articulation and Phonology Scale, Fourth Revision

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Name/ID		Year	Month	Day	Dialect
Mia Simucase		Date of testing*			
		Date of birth			
Gender	Grade	Chronological age**			Examiner
<input type="checkbox"/> Male <input type="checkbox"/> Female		*Date of Testing is administration date of Word Articulation **Do not round up to the next month or year			

### SCORE SUMMARY

Phonological error pattern	Number of occurrences For each phonological error pattern, add column subtotals from pages 2, 3, and 4 for all sounds (1–81)	Percentage of occurrence	
Syllable Reduction		÷ 12 =	× 100 = %
Cluster Simplification		÷ 11 =	× 100 = %
Initial Consonant Deletion		÷ 29 =	× 100 = %
Final Consonant Deletion		÷ 19 =	× 100 = %
Fronting		÷ 24 =	× 100 = %
Deaffrication		÷ 7 =	× 100 = %
Stopping		÷ 22 =	× 100 = %
Gliding		÷ 12 =	× 100 = %
Vowelization		÷ 9 =	× 100 = %
Prevocalic Voicing		÷ 13 =	× 100 = %
Postvocalic Devoicing		÷ 11 =	× 100 = %
<b>Phonology raw score</b> (Add the number of occurrences of all phonological error patterns)	=	<input style="width: 100px; height: 20px;" type="text"/>	

### LEVEL OF PHONOLOGICAL IMPAIRMENT

Standard score (SS)	Confidence interval <input type="checkbox"/> 90% <input type="checkbox"/> 95%	Percentile rank	Test-age equivalent	Severity range
				<input type="checkbox"/> Within Normal Limits (SS of 86 or higher) <input type="checkbox"/> Mild (SS of 79 to 85) <input type="checkbox"/> Moderate (SS of 71 to 78) <input type="checkbox"/> Severe (SS of 70 or lower)

FREE online scoring and reporting available at [platform.wpspublish.com](http://platform.wpspublish.com).  
Registration required.

# PHONOLOGY

Picture card no.	Sound no.	Target word	Target sound	Error production	Phonological error patterns											Other (write in)	
					Syllable Reduction	Cluster Simplification	Initial Consonant Deletion	Final Consonant Deletion	Fronting	Deaffrication	Stopping	Gliding	Vowelization	Prevocalic Voicing	Postvocalic Devoicing		
1	1	horse	h-														
2	2	<b>b</b> aby	b-														
3	3	bāhtub	æ														
	4		-b														
4	5	pig	p-														
5	6	cup	-p														
6	7	nine	n-														
7	8	train	-n														
8	9	<b>m</b> onkey	m-														
	10		ʌ														
9	11	cōmb	k-														
	12		ou														
	13		-m														
10	14	cāke	er														
	15		-k														
11	16	<b>w</b> agon	w-														
	17		g-														
	18		ə														
12	19	dōg	d-														
	20		ɔ														
	21		-g														
13	22	<b>t</b> able	t-														
	23	rēd	ε														
	24		-d														
14	25	cat	-t														
15	26	jumping	dʒ-														
	27		-ŋ														
16	28	shoe	f-														
	29		u														
17	30	fish	ɪ														
	31		-f														
18	32	<b>T</b> V	v-														
19	33	fiye	-v														
20	34	<b>l</b> adder	l-														
	35		ə														
21	36	ball	-l														
Column subtotals for sounds 1–36																	

# PHONOLOGY

Picture card no.	Sound no.	Target word	Target sound	Error production	Phonological error patterns											Other (write in)
					Syllable Reduction	Cluster Simplification	Initial Consonant Deletion	Final Consonant Deletion	Fronting	Deaffrication	Stopping	Gliding	Vowelization	Prevocalic Voicing	Postvocalic Devoicing	
22	37	air <u>pl</u> ane	pl- (/ blend)													
	38	<u>y</u> ellow	j-													
23	39	co <u>ld</u>	-ld (/ blend)													
24	40	b <u>ir</u> d	ɜː													
25	41	f <u>o</u> rk	f-													
	42		oəː													
	43	kn <u>i</u> fe	ɑɪ													
	44		-f													
26	45	c <u>a</u> r	ɑəː													
27	46	e <u>a</u> r	ɪəː													
28	47	r <u>i</u> ng	r-													
29	48	t <u>r</u> ees	tr- (r blend)													
	49		i (long e)													
	50	t <u>h</u> is	ð-													
30	51	ch <u>a</u> ir	tʃ-													
	52		ɛəː													
	53	gr <u>e</u> en	gr- (r blend)													
31	54	w <u>a</u> tch	ɑ													
	55		-tʃ													
32	56	t <u>h</u> umb	θ-													
33	57	mouth/ te <u>eth</u>	-θ													
34	58	z <u>i</u> pper	z-													
35	59	n <u>o</u> se	-z													
36	60	s <u>u</u> n	s-													
37	61	h <u>o</u> use	ɑʊ													
	62		-s													
38	63	st <u>e</u> p/ st <u>a</u> irs	st- (s blend)													
39	64	n <u>e</u> st	-st (s blend)													
40	65	<u>c</u> arrots	-ts (s blend)													
41	66	b <u>o</u> oks	ʊ													
	67		-ks (s blend)													

Column subtotals for sounds 37–67																
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# PHONOLOGY

Picture card no.	Sound no.	Target word	Target sound	Error production	Phonological error patterns											Other (write in)	
					Syllable Reduction	Cluster Simplification	Initial Consonant Deletion	Final Consonant Deletion	Fronting	Deaffrication	Stopping	Gliding	Vowelization	Prevocalic Voicing	Postvocalic Devoicing		
42	68	cheese	tʃ-														
	69		-z														
43	70	giraffe	dʒ-														
	71		r-														
44	72	jār	dʒ-														
	73		ɑə														
45	74	bridge	br- (r blend)														
	75		-dʒ														
46	76	helicopter	l-														
	77		ə														
47	78	umbrella	br- (r blend)														
	79		l-														
48	80	elephant	l-														
	81		-nt														
Column subtotals for sounds 68–81																	

DESCRIPTIONS OF PHONOLOGICAL ERROR PATTERNS		
Phonological error pattern	Description	Example
Syllable Reduction	When a syllable is deleted from a word containing two or more syllables	[ɛləfənt] → [ɛlfənt]
Cluster Simplification	When a consonant cluster is simplified by deleting one or more of the consonants, including deleting the cluster entirely	[triz] → [tiz]
Initial Consonant Deletion	When the initial consonant target sound is deleted	[pɪŋ] → [ɪŋ]
Final Consonant Deletion	When the final consonant target sound is deleted	[koum] → [kou]
Fronting	When a velar (e.g., [k], [g]) or palatal (e.g., [tʃ], [dʒ], [ɟ]) sound is replaced with a sound that has an alveolar place of articulation (i.e., a sound produced in the front of the mouth, such as [t], [d], [s], [z], [n]); also includes when [ʃ] or [ʒ] is replaced with [θ]	[fɪʃ] → [fɪs]
Deaffrication	When an affricate (e.g., [tʃ], [dʒ]) is replaced with a fricative (e.g., [f], [z]) produced at a similar place of articulation	[tʃɛə] → [fɛə]
Stopping	When a fricative (e.g., [f], [v], [s], [z], [θ], [ʃ], [ʒ]) or affricate (e.g., [tʃ], [dʒ]) is replaced with a stop consonant (e.g., [p], [b], [t], [d], [k], [g]) produced at a similar place of articulation	[naɪf] → [naɪp]
Gliding	When a liquid ([l] or [r]) is replaced by a glide ([w] or [j]); also includes when a glide [j] is replaced by a glide [w]	[ɪŋ] → [wɪŋ]
Vowelization	When a vocalic liquid ([l], [ɹ], or [ɻ]) is replaced with a vowel	[bɔl] → [bɔo]
Prevocalic Voicing	When an initial voiceless consonant is replaced with a voiced consonant	[pɪŋ] → [bɪŋ]
Postvocalic Devoicing	When a final voiced consonant is replaced with a voiceless consonant	[dɔŋ] → [dɔk]

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