Record Form



Arizona[™]-4

Arizona Articulation and Phonology Scale, Fourth Revision

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		Janet B. Fudala, File		8,					
Name/ID			Year	Month	Day	Dialect			
Andrew Simucas	е	Date of testing				C.			
Gender	Grade	Date of birth				Examine			
□ Male □ Female		Chronological age*							
		*Do not round	up to the next	month or ye	ar				
		SCORE S	UMMAR	Υ			121		
	Word Articulation					Sentence	Articulation		
Transfer total column sums	from page 3 and add together t	o determine the Total Error Value	Transfer to	otal column	sums from	m page 6 and	add together	to determine the Total Error Value	
+	+	=			+		+	=	
Initial Consonants Fir	nal Consonants Vow	els Total Error Value	Initial Co	nsonants	Final (Consonants	Vow	els Total Error Value	
100 -	=		10	00 -			= [
	tal Error Value Wor	d Articulation Total Score	Total Poss		Total I	Error Value	Sente	nce Articulation Total Score	
				0					
		SPEECH INTELLIGIBILITY	INTERPR	ETATION	VALUE				
Word Articulation Total Score	Sentence Articulation Total Score	Total Score range			Interpr	etation of ar	ticulatory pro	oficiency	
		95.0 to 100	Sound e	rrors are al	osent or r	ninimally not	ticed in conti	nuous speech	
		85.0 to 94.5 70.0 to 84.5		_		gh noticeably			
		60.0 to 69.5		_		reful listenin ult, even with	g ı careful liste	ning	
		45.0 to 59.5	1	usually is u		ole			
		0 to 44.5	Speech	is unintellig	gible				
	WOR	D-SENTENCE ARTICULATIO	N CRITIC	AL DIFFE	RENCE S	SCORE			
Difference between To	otal Scores for Word Articu	lation and Sentence Articulation	on =				Signifi	cant? □Yes □No	
	Manual Anti- all Alban	LEVEL OF ARTICULA	LATORY IMPAIRMENT Sentence Articulation						
Confidence	Word Articulation			Confi	dence	Sentence	Articulation		
Standard interval	Percentile Test-age		Standard	inte	rval	Percentile	Test-age		
score (SS) 90% 956	% rank equivalent	Severity range	score (SS)	90%	□95%	rank	equivalent	Severity range	
		☐ Within Normal Limits (SS of 86 or higher)						☐ Within Normal Limits (SS of 86 or higher)	
		☐ Mild (SS of 79 to 85)						☐ Mild (SS of 79 to 85)	
		☐ Moderate (SS of 71 to 78)☐ Severe (SS of 70 or lower)						☐ Moderate (SS of 71 to 78) ☐ Severe (SS of 70 or lower)	
		Severe (33 of 70 of lower)							
<u> </u>	PE	RCENTAGE OF SPEECH IMP	ROVEMEN	IT (FOR F	RETESTI	NG)			
				Sentence	Articulation				
) ÷ [];	× 100 =) ÷ [< 100 =	
Total Score Total Sat retesting at initial t	Percentage of	Total S		Total Score		al Score	Percentage of		
	esting at initial testing	Speech Improvement	at rete	sting at	initial test	ing at ini	tial testing	Speech Improvement	

WORD ARTICULATION

010	O	0.11	\ / EE		
CIR	(:I F	ONI	$Y \vdash \vdash$	2 K ()	IRS.

					CIRCLE ONLY ERRORS			
B: 1					ound valu	es	-	N. I.
Picture card	Sound	Target	Target		onants		Error (Record the	Notes (Include full word transcriptions, behavioral observations, and responses to Language Prompts)
no.	no.	word	sound	Initial	Final	Vowels	production)	and responses to Language Prompts)
1	1	<u>h</u> orse	h-	1.5				
2	2	<u>b</u> aby	b-	1.0				5
3	3	b a thtu <u>b</u>	æ			2.0		
	4		-k		0.5			
4	5	<u>p</u> ig	p-	1.0				
5	6	cu <u>p</u>	-p		0.5			<i>C. N</i>
6	7	<u>n</u> ine	n-	2.0				
7	8	trai <u>n</u>	-r	1	3.5			O
0	9	<u>m</u> ōnkey	m-	1.5				
8	10		٨			1.0		
	11	<u>c</u> o <u>m</u> b	k-	3.0				(0 //)
9	12		ου			1.5		
	13		-m		1.5		1, 6	3
10	14	c <u>ak</u> e	еі			1.5		0,
10	15		-1		1.5			
	16	<u>w</u> ag o n	W-	1.5				0
11	17		g-	1.5				.0
	18		ə		(3.5		
	19	<u>d</u> og	d-	2.0				
12	20		Э	10	3	1.0		
	21		-9		0.5			
	22	<u>t</u> able	t-	3.5				
13	23	r <u>ed</u>	8	7	10	2.0		
	24		-C		3.0			
14	25	ca <u>t</u>	-1		5.0			
15	26	jumping	cg-	0.5				
15	27	6	-r		1.5			
16	28	<u>sh</u> oe	J-	1.0				
16	29		u			2.0		
	30	f <u>ish</u>	ı			3.5		
17	31	<	-	ſ	0.5			
18	32	T <u>V</u>	V-	1.0				
19	33	fi <u>v</u> e	-\	,	1.5			
-	34	<u>l</u> add er	I-	2.0				
20	35		₽-			2.0		
21	36	ba <u>ll</u>	-		3.5			

Column subtotals for sounds 1–36 (Add circled error values only)

WORD ARTICULATION

				CIRCL	E ONLY EI	RRORS		
				Sc	ound valu	es		
Picture card	Sound	Target	Target	Consc	nants		Error (Record the	Notes (Include full word transcriptions, behavioral observations,
no.	no.	word	sound	Initial	Final	Vowels	production)	and responses to Language Prompts)
22	37	air <u>pl</u> ane	pl- (I blend)	0.5				
	38	<u>y</u> ellow	j-	2.5				
23	39	co <u>ld</u>	-ld (I blend)		0.5			
24	40	bird	3,			0.5		
	41	<u>f</u> ork	f-	1.5				
25	42		09-			3.5		<i>C</i> 3
	43	knī <u>f</u> e	aı			1.0		
	44		-f		1.5			
26	45	car	аъ			0.5		
27	46	ear	19-			0.5		
28	47	<u>r</u> ing	r-	1.5				
	48	<u>tr</u> ees	tr- (r blend)	0.5				
29	49		i (long e)			1.0	+, C-	
	50	<u>th</u> is	ð-	2.5				0,
	51	<u>ch</u> air	tſ-	1.0				
30	52		ج3			0.5		
	53	green	gr- (r blend)	0.5				O
31	54	w a t <u>ch</u>	а			1.0		
31	55		-tʃ		0.5		7	
32	56	<u>th</u> umb	θ-	1.0		*		
33	57	mou <u>th</u> / tee <u>th</u>	-θ		0.5			
34	58	<u>z</u> ipper	Z-	1.0				
35	59	no <u>s</u> e	-Z		2.5			
36	60	<u>s</u> un	S-	2.5				
37	61	h ou se	αυ			0.5		
37	62		-S	11.	2.0			
38	63	steps/ stairs	st- (s blend)	0.5				
39	64	ne <u>st</u>	-st (s blend)		0.5			
40	65	carro <u>ts</u>	-ts (s blend)		0.5			
41	66	b oo ks	υ			0.5		
-+1	67		-ks (s blend)		0.5			

Column subtotals for sounds 37–67		
(Add circled error values only)		

Total column sums (error values) for all sounds (1–67)			
	Initial Consonants	Final Consonants	Vowels

(Transfer these three sums to the Word Articulation section on the front page of this Record Form to calculate the Total Error Value and Word Articulation Total Score)

WORD ARTICULATION

Additional Word Articulation items – You must administer these items if you intend to code Phonology

	Add	altional word	Articulation it	erris – Tou must auminist	er these items if you intend to code Phonology
Picture card no.	Sound no.	Target word	Target sound	Error (Record the production)	Notes (Include full word transcriptions, behavioral observations, and responses to Language Prompts)
4.0	68	<u>ch</u> ee <u>s</u> e	tſ-		
42	69		-Z		Ca
40	70	<u>g</u> i <u>r</u> affe	dg-		^2
43	71		r-		
44	72	<u>į</u> ar	dg-		
44	73		аъ		
45	74	<u>br</u> idge	br- (r blend)		X
45	75		-dz		
46	76	he <u>l</u> icopt er	I-		
46	77		9₁		
47	78	um <u>br</u> e <u>ll</u> a	br- (r blend)		.0, 7/4
47	79		I-		
40	80	e <u>l</u> epha <u>nt</u>	I-		63 0
48	81		-nt		9
				1 . N	
), (2)	
		X	0,	<i>X</i> (7)	
	(0)	5			
	, \	1	· · · · · · · · · · · · · · · · · · ·		

4 Arizona-4 Word Articulation

SENTENCE ARTICULATION

Sample sentences **S1.** Don't forget your cap and gloves.

S2. Look at the spider web.

S4 S5

. It's hard work to climb on rocks.		☐ Reading	□ Imitation
. I cannot chew with my loose tooth.	·		

Administration method

S3. Knock on the door to go inside. CIRCLE ONLY ERRORS Sound values Error (Include transcriptions of Consonants Sentence Sound (Record the additional sound errors and no. Target sentence Target sound Initial Final Vowels production) behavioral observations) 1 The <u>h</u>orse is pretty. h-1 1.5 b-2 The <u>baby</u> is in the $b\overline{a}$ thtu<u>b</u>. 1.0 3 2 æ 2.0 4 0.5 5 Look at the pig play with the cup! 1.0 3 6 -р 7 I have <u>n</u>ine cars on my trai<u>n</u>. n-2.0 4 8 -n 3.5 9 m-The $\underline{m}\overline{o}$ nkey took my $\underline{c}\overline{o}\underline{m}$ b! 1.5 1.0 10 ٨ k-11 5 3.0 12 ου 1.5 13 -m 1.5 14 Put the $c\overline{a}\underline{k}e$ in the $\underline{w}ag\overline{o}n$. еі 1.5 -k 15 1.5 6 16 1.5 17 1.5 g-18 3.5 d-19 The $d\overline{o}g$ is under the <u>table</u>. 2.0 20 1.0 7 21 0.5 -g 22 3.5 23 Look at the red cat! 2.0 3 8 24 -d 3.0 25 -t 5.0 26 I was jumping and lost my shoe. 0.5 27 -ŋ 1.5 9 ſ-28 1.0 29 u 2.0 30 The fish likes water. 3.5 10 31 -∫ 0.5 32 The best TV is at five. 1.0 11 33 -V 1.5 34 1-Put the <u>l</u>adder and ba<u>ll</u> away. 2.0 35 12 ð 2.0 36 -1 3.5

Column subtotals for sounds 1–36 (Add circled error values only)			
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SENTENCE ARTICULATION

			CIRCLE ONLY ERRORS					
		Sound va		ound valu	es		Notes	
Sentence	Sound			Consc	Consonants		Error (Record the	(Include transcriptions of additional sound errors and
no.	no.	Target sentence	Target sound	Initial	Final	Vowels	production)	behavioral observations)
13	37	The airplane is yellow.	pl- (I blend)	0.5				
10	38		j-	2.5				6
14	39	Ice cream is co <u>ld</u> .	-ld (I blend)		0.5			
15	40	Look at the bird fly.	3°			0.5		
	41	l eat with a <u>for</u> k and kni <u>f</u> e.	f-	1.5				
16	42		03-			3.5		
10	43		aı			1.0		
	44		-f		1.5			
17	45	My car is blue.	аъ			0.5		
18	46	I hear with my ear.	19-			0.5		
	47	I lost my <u>r</u> ing by the <u>tr</u> ees.	r-	1.5				13
19	48		tr- (r blend)	0.5				
	49		i (long e)			1.0		
	50	<u>Th</u> is <u>ch</u> air is <u>gr</u> een.	ð-	2.5	.5			/
00	51		tſ-	1.0			01	
20	52		-63			0.5		
	53		gr- (r blend)	0.5				
	54	Wāt <u>ch</u> me move my <u>th</u> umb.	а		C	1.0		
21	55		-ʧ		0.5			
	56		θ-	1.0				
22	57	I have a mou <u>th</u> and tee <u>th</u> .*	-θ		0.5			
23	58	This coat has a <u>z</u> ipper.	Z-	1.0				
24	59	My no <u>s</u> e got red in the <u>s</u> un.	-Z		2.5			
24	60		S-	2.5				
	61	My house has steps and stairs.*	αυ			0.5		
25	62		-S		2.0			
	63		st- (s blend)	0.5				
26	64	I see a ne <u>st</u> .	-st (s blend)		0.5			
	65	Let's eat carro <u>ts</u> and read books.	-ts (s blend)		0.5			
27	66		υ			0.5		
	67	(5)	-ks (s blend)		0.5			

Column subtotals for sounds 37–67 (Add circled error values only)	

^{*}Note. See Manual Chapter 2 for guidelines on which target word to consider when scoring sounds 57 (-0) and 63 (st-).

Total column sums (error values) for all sounds (1–67)			
	Initial Consonants	Final Consonants	Vowels

(Transfer these three sums to the Sentence Articulation section on the front page of this Record Form to calculate the Total Error Value and Sentence Articulation Total Score)

6 Arizona-4 Sentence Articulation

IMITATION CONTEXTS TASK (ICT)

Target sound				lmit	ation Contexts it	ems				+ or -
f	faa fæ	aafaa æfæ	aaf æf	fee fi	eefee ifi	eef if	foo fu	oofoo ufu	oof uf	
ф	 јаа фæ	 аајаа æфæ	 аај ædg	jee dgi	eejee idzi	eej idz	joo dzu	oojoo udzu	ooj udz	
ſ	shaa ∫æ	 aashaa æ∫æ	aash æ∫	shee	eeshee iʃi	eesh i∫	shoo ∫u	ooshoo u∫u	oosh uʃ	
V	vaa væ	aavaa ævæ	aav æv	vee vi	eevee ivi	eev iv	voo vu	oovoo uvu	OOV UV	
I	laa læ	aalaa ælæ	aal æəl	lee li	eelee ili	eel iəl	loo lu	ooloo ulu	loo lool leu	
l blends	flaant flænt	klee kli	ploo plu	eelk iəlk	ayflay eɪfleɪ	eetlee	zold zould	ooshloo uJlu	oolt ult	
j	yaa jæ	aayaa æjæ		yee ji	eeyee iji	9	yoo ju	ooyoo uju		
ţſ	chaa ʧæ	aachaa æʧæ	aach ætʃ	chee tji	eechee itʃi	eech	choo tfu	oochoo utfu	ooch utſ	
r	raa ræ	aaraa æræ	rai rai	ree	earee Iæri	roy	roo ru	ooroo uru	rau raʊ	
r blends	grayve greiv	draasp dræsp	freez friz	troos	aaskree æskri	grayfrer greifræ	krootfraat krutfræt	werstroo wa stru	breeskee briski	
r vowels	zerk zsk	tearch tɪə⋅ʧ	slerp sl ₃ ·p	porzer poəzə	larksee laəksi	airtree ɛətri	erthaur ਤਾਰਿਹਾਣਾ	sorlshoo soəl∫u	werfor wafoa	
ð	thaa ðæ	aathaa æðæ	aath æð	thee	eethee iði	eeth ið	thoo ðu	oothoo uðu	ooth uð	
θ	thaa θæ	aathaa æθæ	aath æθ	thee θi	eethee iθi	eeth iθ	thoo θu	oothoo uθu	ooth uθ	
Z	zaa zæ	aazaa æzæ	aaz æz	zee zi	eezee izi	eez iz	zoo zu	OOZOO UZU	OOZ UZ	
S	saa sæ	aasaa æsæ	vaas væs	see si	eesee isi	ees is	soo su	oosoo usu	roos rus	
s blends	oofs ufs	sleeks sliks	aaskor æskoð	istwer Istw3	flookst flukst	staaksee stæksi	speezor spizoa-	toespoon touspun	sqwaattle skwætəl	
Multisyllabic items										
prelerseek prɛlə·sik		chingthrow ʧɪηθrου			varshtearg vaə∫tıə∙g			thilodrench θɪlodrɛntʃ		
zvorprice zvoə-prass			proonzairkeelt prunzεækilt			spuhzeteef spʌzɛtifə		charlethsblocks tʃαə·lεθsblaks		

SUPPLEMENTAL SENTENCES

Target sound	Supplemental sentence	Errors/Notes
f	<u>F</u> ind the hat and take it o <u>ff</u> .	
dg	May I have just one more, please?	
ſ	<u>Sh</u> e made a big wi <u>sh</u> .	
V	The van is made of flowers.	
I	Look at the doll.	
/ blend	My <u>bl</u> ue coat is getting o <u>ld</u> .	7
j	You are great!	
t	The <u>ch</u> ildren went to the bea <u>ch</u> .	
	The <u>r</u> ide at her party was fun.	
	The girl ran to the door.	
	Where is the barn?	
r r blend	We are near the park.	
r vowel	Her hair is short.	
	She has an older <u>br</u> other.	
	The grass needs water.	
	Here is your milk.	· () ·
ð	<u>Th</u> e boy did not ba <u>th</u> e.	
θ	I lost my <u>th</u> ird too <u>th</u> .	
Z	Going to the zoo is fun!	. 5
S	We like to sing in class.	
s blend	Toy stores are the best!	
multisyllabic	Lemonade is my favorite drink.	
multisyllabic	The thermometer says it is one hundred degrees outside .	70. Co.

PICTURE DESCRIPTION AND STORY RETELL

Circle picture(s) administered	Pet store	Zoo	Playground	Soccer game
Circle administration method	Picture Descript	tion	Story Retell	
Record of examinee's utterances				
Preside Mili				
MLU (for Picture Description administration method only) Calculate mean length of utterance (MLU) for each picture administered by counting the total number of morphemes and dividing by the total number of utterances	Total numb morphen		Total number of utterances	Mean length of utterance (MLU)