

New Zealand Articulation Test N.Z.A.T

Jayne Moyle © 2004 Updated in 2016

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Acknowledgement to Microsoft Office Design Gallery Live.

New Zealand Articulation Test Administration Guidelines

Administer the test in a well lit, ventilated room away from distractions. You will need a desk and two suitably sized chairs. Seat the child on your left and lay the test on the desk in front of the child. Talk to the child for a while to make sure they feel comfortable with you and the testing process. This test takes between 3-15 minutes to administer, depending on the age and abilities of the child.

Administering Consonant, Blend, Vowel and Multisyllabic Sections

Show the child the first page and say: "Tell me what these pictures are called. Sometimes I might ask you to say the word again, if I didn't hear it. Start from here" (point to first picture).

Follow this hierarchy of prompts, if the child fails to name the picture with the target word spontaneously.

- Some of the words have a verbal cue already printed under the picture, read this out loud, if they need a cue.
- Point to the specific part of the picture e.g. the smoke / straw. Prompt with "what's this part here?"
- Use a semantic cue e.g. "you have it for lunch" (yoghurt).
- Use a sentence completion cue e.g. "it's a green..." (bottle).

Do not use forced choice questions e.g. "is it van or car?"

Do not use phonemic cues e.g. "it starts with /w/" or "it's a ssss..."

If the child still is unable to name the picture correctly, use the following imitation cue:

- Name the picture with the target word.
- Say an intervening sentence without the target word in it.
- Reprompt for target word.

For example,

"It's a hammer. You bang in nails with it. What is it?"

Do not use imitation, unless you have prompted several times without success.

Special instructions:

If the child misses a word out entirely, reprompt for it at the end of the page.

If the child says an alternative name for a picture, which still contains the target phoneme, check the word is listed as a valid alternative in the word list. Words with acceptable alternatives are pen / pencil, key / keys, lamp / light, spray / spraying, scratch / scratching. If what the child said is not listed, continue prompting to elicit the actual target word.

If a child uses a multisyllabic or compound word to describe a picture, prompt for the short word by saying the first part of the word for them, e..g. "spider..." (web). Watch out for this on the following words: spider web, basket ball, wine bottle, hamburger, chocolate yoghurt, hairbrush, jigsaw puzzle, sunshine, choo choo train, car keys, magician, television, fly spray.

Procedure for progressing through the test

Sections of the NZAT may be administered in any order or combination as deemed necessary by clinical judgement.

Scoring

Use a dot ● to mark in **correct** use of the target phoneme for each word.

If the child uses another phoneme, use the International Phonetic Alphabet (below) to transcribe their response.

Use Ø to mark omission of sounds.

If a child has inconsistent errors, note all the errors in the appropriate boxes as you go through the test.

Please note /r/ is the symbol commonly used in New Zealand for an alveolar approximant, not /J/ as shown on the chart. If a child does trill an /r/, note this in writing in the comments section on the form.

THE INTERNATIONAL PHONETIC ALPHABET (revised to 1993)

	Bilabia	al	Labio	dental	Det	ntal	Alve	eolar	Postal	veolar	Retr	oflex	Pala	tal .	Ve	lar	Uvu	ılar	Phary	yngeal	Glo	ottal
Plosive	p 1	b					t	d	es.		t	d	c	f	k	g	q	G			3	
Nasal	1	m		ŋ				n				η		ŋ		ŋ		N				
Trill]	В						r										R				
Tap or Flap								ſ				τ										
Fricative	ф	3	f	v	θ	ð	s	z	l	3	ş	ą	ç	j	X	Y	χ	R	ħ	٢	h	ĥ
Lateral fricative							1	ß														
Approximant				υ				I				Į.		j		щ						
Lateral approximant								1				l		λ		L						

Where symbols appear in pairs, the one to the right represents a voiced consonant. Shaded areas denote articulations judged impossible.

The IPA chart was developed by the Department of Linguistics, University of Victoria, Victoria, British Columbia, Canada.

	D	IACRITICS	I	iacritics may be placed above a symbol with a descender, e.g. Ŋ					
	۰	Voiceless n	d	Breathy voiced b a Dental t d					
	~	Voiced §	ţ	_ Creaky voiced b a L Apical t d					
	h	Aspirated th	d^{h}	_ Linguolabial t d Laminal t d					
	,	More rounded	ş	w Labialized tw dw ~ Nasalized ~ ~					
	c	Less rounded	ş	$_{\mathrm{Palatalized}}^{\mathrm{j}}$ $_{\mathrm{Palatalized}}^{\mathrm{j}}$ $_{\mathrm{Nasalrelease}}^{\mathrm{n}}$ $_{\mathrm{Nasalrelease}}^{\mathrm{n}}$					
	+	Advanced	ų	Y Velarized ty dy l Lateral release dl					
	_	Retracted	<u>i</u>	S Pharyngealized ts ds No audible release d					
ès	••	Centralized	ë	~ Velarized or pharyngealized 1					
	×	Mid-centralized	ě	Raised Q (I = voiced alveolar fricative)					
,	ı	Syllabic	ļ	Lowered e (= voiced bilabial approximant)					
	^	Non-syllabic	ě	Advanced Tongue Root e					
	ı	Rhoticity	ə٠	Retracted Tongue Root 🤤					

Whole word transcription:

Some children's productions of sounds vary from one attempt to the next and between phonemic contexts. In such cases, whole word transcription of each test item can be completed using the NZAT Transcription Record form provided. This will allow for a phonological process analysis at the clinician's discretion.

Administering the discussion picture subtest:

Show the child the picture and say "tell me all about what you see". Use minimal encouragers to keep the child talking about the picture for as long as possible e.g. "mmm", "oh yes" etc. If the child is reluctant to speak, make comments about the picture and then ask an open question e.g. "Look at the whale! He's squirting the sun with water! Tell me about the spider." As the child speaks, note sounds in error in the "Discussion Picture" comments section. If there are multiple errors noted in the consonant and blends subtests, tape record the child's speech sample from the discussion picture, and transcribe it in full.

Stimulability testing

Ask the child to watch and listen carefully as you correctly produce sounds misarticulated by the child. The child then tries to imitate the sound as modelled. If the examinee is successful at producing the sound after you in isolation, proceed to a syllable, then a word. Note the sound and position being tested in the stimulability section on the score form. Test stimulability for all sounds in error if the child's attention allows.

New Zealand Articulation Test

Name:	Age:	M/F	Date:
Examiner:	Scho	ol:	

	Initial	Medial	Final			
р				pr	i	
b				br	a	
t				fr	၁	
d				tr	u	
k				dr	ε	
g				kr	е	
f				gr	I	
v				bl	Λ	
m				pl	α	
n				kl	æ	
1				gl	υ	
h				fl	eī	
r				sl	aı	
w				sw	ບα	
j				sm	aυ	
ŋ				sn	ΟI	
s				sp	еә	
Z				sk		
S				st		
tζ				spr		
dз				str		
θ				skr		
ð				skw		

Stimulability Testing

Sound	Posn	Isol.	Syll.	Word

Comment on mulitsyllabic section:

Comment on discussion picture:

Raw Score: Percentile rank:

Comments:

New Zealand Articulation Test Transcription Record

Name:	Age:	Facility:
Examiner:	\mathbf{M}/\mathbf{F}	Date of test:

pensıl	æpul	kлр
bol	teibul	w e b
tæp	bɒtʊl	bput
c b	lædə	b e d
kiz	sɛkəl	baık
gεl	рεдə	рід
fιζ	dυufin	lif
væn	tivi	glnv
maus	hæmə	wεm
naıf	m∧ni	trein
læmp	toılət	
hæt		
ræbət	kærət	
jαυgət	wil	

	sinin	rıŋ
SAN	wisul	haus
zıp	pızıl	t∫iz
∫ u	fisin	bras
t∫eə	w¤t (In	wɪt S
d 3 æ m	mædʒīk	fridʒ
θ л m	nλθιŋ	baθ
ðeə	fеðə	
prezənt	bred	frag
trak	dram	kræb
grin	blu	plein
klaun	glasəz	flauwə
slaid	swin	smpuk
sneil	spaidə	skul
sta	sprei	stro

		T
skræt∫ıŋ	skweə	
bi	ka	а С
fud	bεd	e g
pig	клр	ppt
mæn	bυk	trein
kait	k a u	bɒʊt
boi	eə	
spsədzəz	gprilə	ænəmulz
pæsıfək	mputəbaık	nmbrelə
nı læmçı law	kætəpılə	kelkjuleītə
pstreilijə	helikpptə	tarrænesoresreks

Comments:

NZAT Word List Consonant assessment

pencil, pen	apple	cup
ball	table	web
tap	bottle	boat
door	ladder	bed
key, keys	circle	bike
girl	burger	pig
fish	dolphin	leaf
van	t.v.	glove
mouse	hammer	worm
knife	money	train
lamp, light	toilet	
hat		
sun	whistle	house
zip	puzzle	cheese
shoe	fishing	brush
chair	watching	witch
jam, jar	magic	fridge
thumb	nothing	bath
there	feather	
rabbit	carrot	
wheel		
yoghurt		
	singing	ring

Blend assessment

present	bread	frog
truck	drum	crab
green	blue	plane
clown	glasses	flower
slide	swing	smoke
snail	spider	school
star	spray, spraying	straw
scratch, scratching	square	

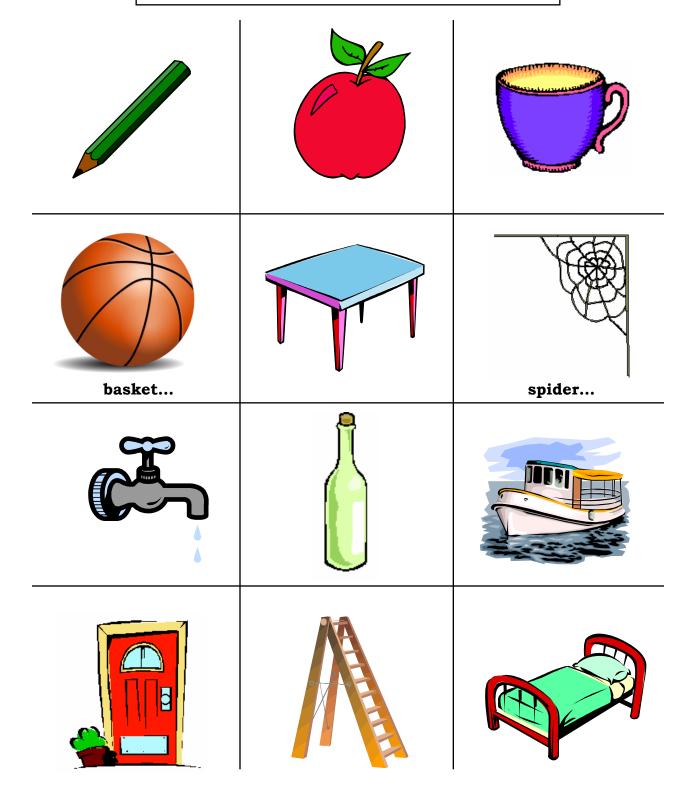
Vowel assessment

bee	car	saw
food	bird	egg
pig	mug, cup	pot
man	book	train
kite	cow	boat
boy	ear	

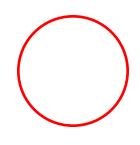
Multisyllabic word assessment

sausages	gorilla	animals
Pacific	motorbike	umbrella
washing machine	caterpillar	calculator
Australia	helicopter	tyrannosaurus rex

Consonant Assessment







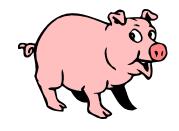


What shape is this?





a ham...



not a boy, it's a...



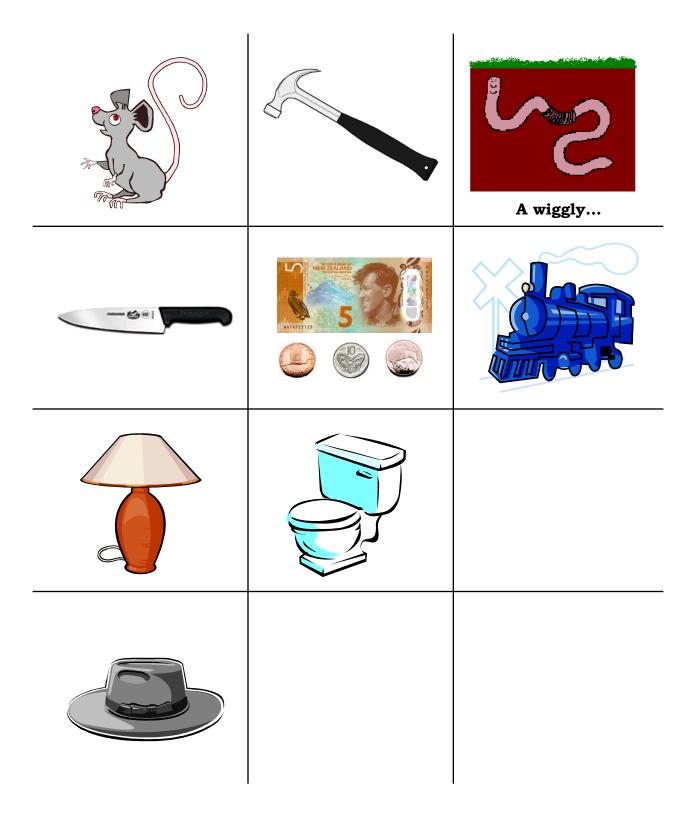


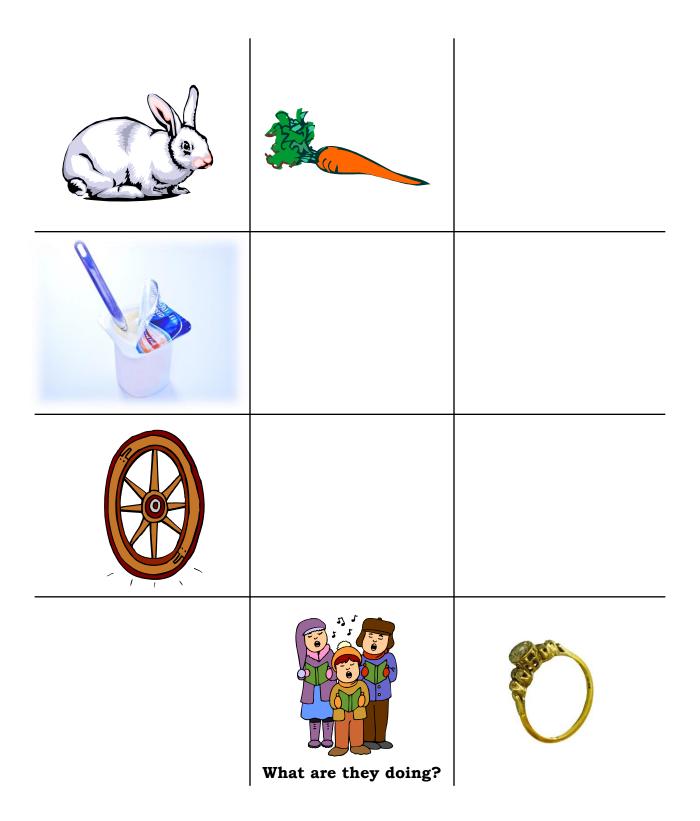


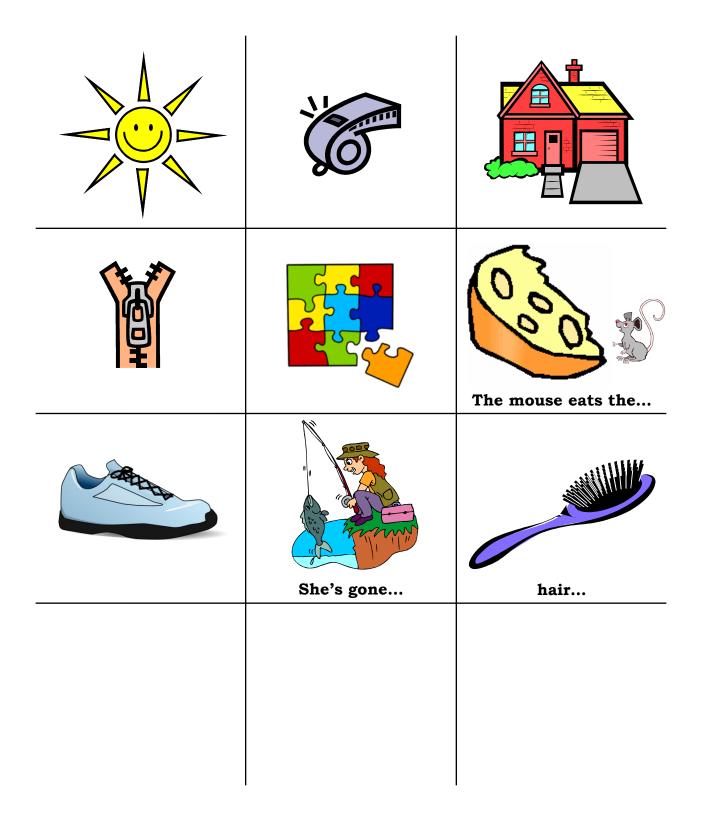


















What are they doing?











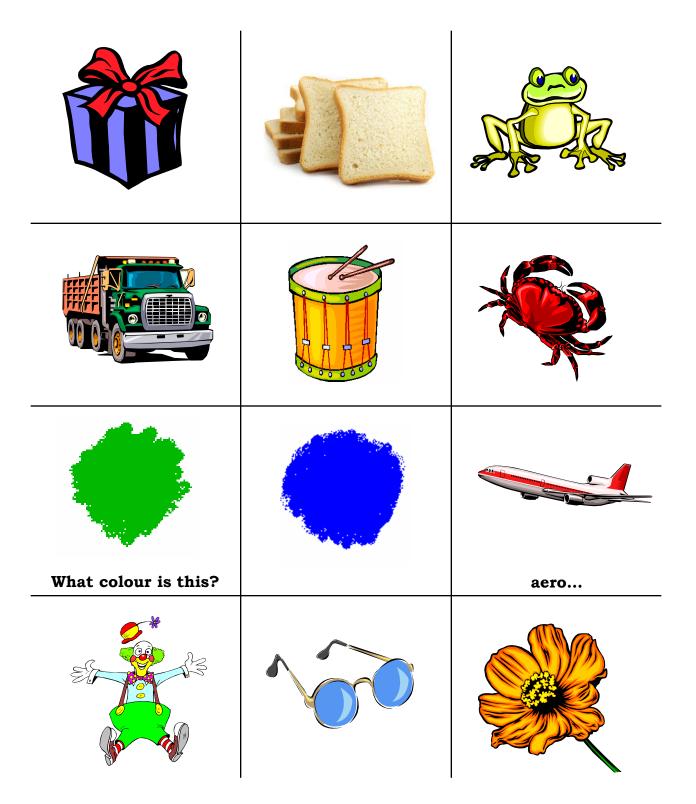
What's in an empty box?

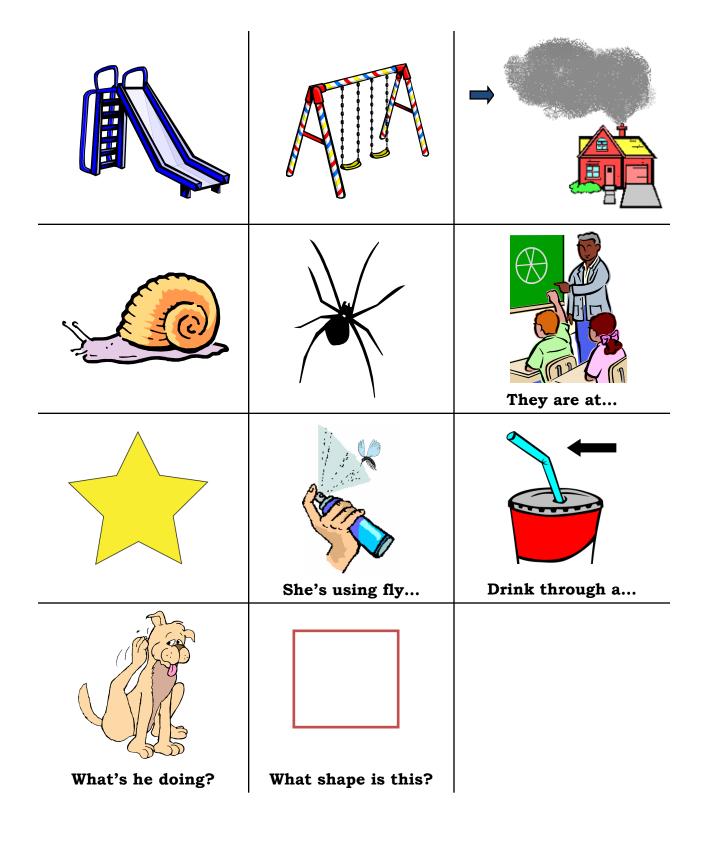




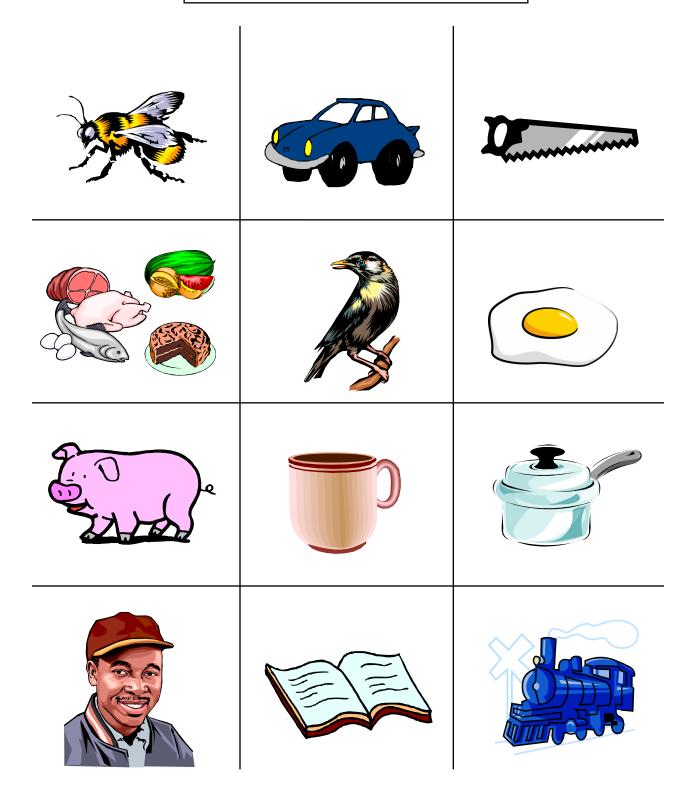
The door is over...

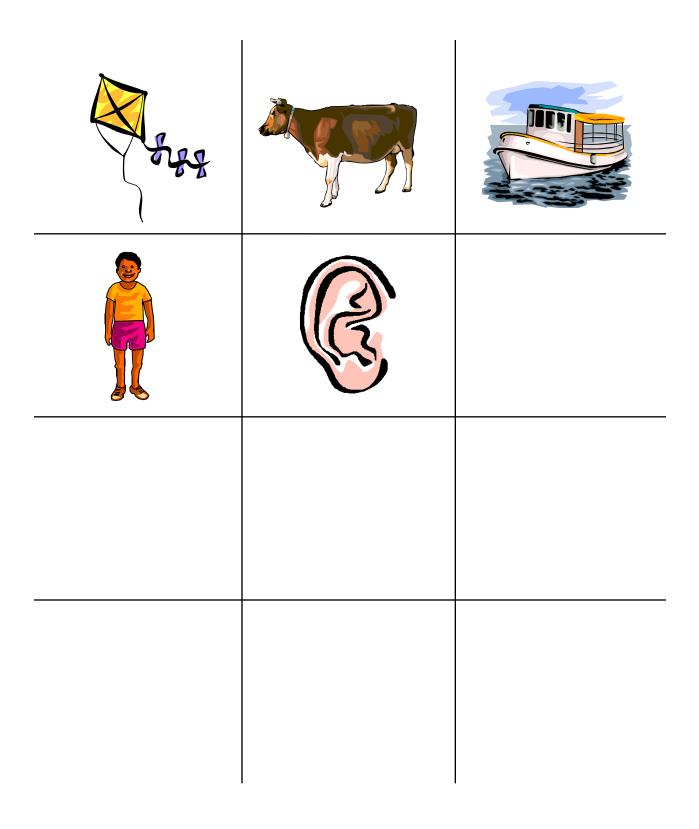
Blend Assessment





Vowel Assessment





Multisyllabic Word Assessment

