Maximizing Assessment Data to Monitor Progress and Develop Language Goals

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Assessment Instrument

MacArthur-Bates Communicative Development Inventories

Inventories and Age Ranges

- Words and Gestures
 8 to 18 months language level
- Words and Sentences
 16 to 30 months language level

Selecting Appropriate Form

Girl's expressive vocabulary is:

0 to 69 words – Words and Gestures

70+ words – Words and Sentences

Boy's expressive vocabulary is:

0 to 49 words - Words and Gestures

50+ words – Words and Sentences

Words and Gestures

- 8 to 18 months language level
- Areas assessed
 - Comprehension of phrases
 - Vocabulary comprehension
 - Expressive vocabulary (396 words)
 - Communicative gestures
 - Symbolic gestures/pretend play

	understands	says	signs		understands	says	signs		understands	says	signs
airplane	0	0	0	car	0	0	0	stroller	0	0	0
bicycle	0	0	0	firetruck	0	0	0	train	0	0	0
bus	0	0	0	motorcycle	0	0	0	truck	O	0	0
4. Toys (8))		-	·			-	*			
	understands	says	signs		understands	says	signs		understands	says	signs
ball	0	0	0	book .	0	0	0	pen	0	0	0
balloon	0	0	0	bubbles	0	0	0	toy	0	0	0
block	0	0	0	doll	0	0	0				
								*			
5. Food ar	nd Drink (30)			9	38w. 60 May			Î	80 70 80		148
	understands	says	signs		understands	says	signs		understands	says	signs
apple	0	0	0	chicken	0	0	0	meat	0	0	0
banana	0	0	0	coffee	0	0	0	milk	0	0	0
bread	0	0	0	cookie	0	0	0	noodles	0	0	0
butter	0	0	0	cracker	0	0	0	orange	0	0	0
cake	0	0	0	drink	0	0	0	peas	0	0	0
candy	0	0	0	egg	0	0	0	pizza	0	0	0
carrots	0	0	0	fish	0	0	0	raisin	0	0	0
cereal	0	0	0	food	0	0	0	spaghetti	0	0	0
cheerios	0	0	0	ice cream	0	0	0	toast	0	0	0
							-				

When infants are first learning to communicate, they often use gestures to make the	eir wishes	known. For	each
item below, mark the line that describes your child's actions right now. Rectangular Strip	Not Yet	Sometimes	Often
Extends arm to show you something he/she is holding.	0	0	0
2. Reaches out and gives you a toy or some object that he/she is holding.	0	0	0
3. Points (with arm and index finger extended) at some interesting object or event.	0	0	0
Waves bye-bye on his/her own when someone leaves.	0	0	0
5. Extends his/her arm upward to signal a wish to be picked up.	0	0	0
6. Shakes head "no".	0	0	0
7. Nods head "yes".	0	0	0
Gestures "hush" by placing finger to lips.	0	0	0
Requests something by extending arm and opening and closing hand.	0	0	0
10. Blows kisses from a distance.	0	0	0
11. Smacks lips in a "yum yum" gesture to indicate that something tastes good.	0	0	0
12. Shrugs to indicate "all gone" or "where'd it go".	0	0	0
B. Games and Routines.			
Does your child do any of the following?		2243	200
		No	Yes
Play peekaboo.		0	0
2. Play patty cake.		0	0
3 Play "so big"		0	0

Words and Sentences

- 16 to 30 months language level
- Areas assessed
 - Expressive vocabulary (680 words)
 - Semantic functions (how child uses words)
 - Word endings
 - Irregular nouns and verbs
 - Sentence length/complexity

Small Household Items (50)

	says	signs		says	signs		says	sign
asket	0	0	glasses	0	0	plate	0	0
anket	0	0	hammer	0	0	purse	0	0
ottle	0	0	jar	0	0	radio	0	0
OX	0	0	keys	0	0	scissors	0	0
lwc	0	0	knife	0	0	soap	0	0
room	0	0	lamp	0	0	spoon	0	0
rush	0	0	light	0	0	tape	0	0
ucket	0	0	medicine	0	0	telephone	0	0
amera	0	0	money	0	0	tissue/kleenex	0	0
an	0	0	mop	0	0	toothbrush	0	0
ock	0	0	nail	0	0	towel	0	0
omb	0	0	napkin	0	0	trash	0	0
qı	0	0	paper	0	0	tray	0	0
sh	0	0	penny	0	0	vacuum	0	0
rk	0	0	picture	0	0	walker	0	0
arbage	0	0	pillow	0	0	watch	0	0
ass	0	0	plant	0	0			

E. Cor	mplexity		
talks/s	마다 하다 사람들이 이번에 살아가 있는데 하는데 살아가는 이 사람들이 하는데 하는데 살아내는데 하는데 아니다 하는데		hat sounds/looks MOST like the way your child sentences more complicated than the two
1.	Two shoes.	0	2. Two foot. Two feet.
	TWO SHOCS.		(Talking about something happening right now.)
3.	Daddy car. Daddy's car.	00	4. Kitty sleep. Kitty sleeping.
Talkir	ng about something happening right now.)	(Talking about something that already happened)	
5.	I make tower. I making tower.	0	6. I fall down. I fell down.
7.	More cookie! More cookies!	0 0	8. These my tooth. These my teeth.
			(Talking about something that already happened)
9.	Baby blanket. Baby's blanket.	0	10. Doggie kiss me. Doggie kissed me.
(Talkir	ng about something that already happened)		(Talking about something that already happened)
1000000	. Daddy pick me up. Daddy picked me up.	00	12. Kitty go away. Kitty went away.

Instructions to Parents

- Can rely only on instructions on form
- Can provide supplemental instructions
 - Verbally
 - In writing
- Words and Sentences: Go over section where parent picks one of two sentences varying in complexity (often misunderstood)

Discussing Inconsistencies

- Opportunity to learn something you may have been unaware of
- Opportunity to improve parents' observational skills of child's language
 - "I see you marked that Anna says 'now'. Can you give me an example of a situation when she said/signed that word?"

Compare subscale scores

➤ Hearing children typically show approximately equivalent scores across all sections

- Comprehension vs. production
 - ➤ If delays exist in both, more significant problem than if only production delays

- Gestures vs. linguistic items
 - Gestures often indication of more general cognitive ability
 - Cognitive red flag if gesture scores are substantially below CA
 - Cognition should predict linguistic ability
 - Language red flag if gesture scores significantly exceed linguistic scores

- Single words vs. word combinations
 - ➤ By the time child produces 50 words, word combinations are expected
- Use of irregular forms (e.g., men, ran)
 - Expected at about 2 years of age
 - ➤ Not relevant to families using ASL only

Interpreting "often", "sometimes", "not yet" items

- Using the tables in the manual (see handouts):
 - Compare child's status with percentage of age-mates who received an "often" or "sometimes" response

- Assessment results provide data needed to advocate for appropriate IFSP goals
- Measureable goals are possible because child is assessed at regular intervals
- Track child's progress over time
 - Vocabulary size growth
 - Months of development

- Evaluate communication approach being used (# of words signed vs. spoken)
- Provide parent education
 - significance of vocabulary development for future academic success
 - Importance of having more than labels
 - Setting the bar

- Setting the Bar: Information from normative tables can help interventionists and parents understand the magnitude of vocabulary growth needed per month
 - From 16 to 30 months children learn to produce an average of 37 words a month

- Setting the Bar: Language demands increase exponentially after 18 mos of age
 - Average expressive vocabulary size at:
 - \geq 12 months = 5 words
 - \geq 18 months = 85 words
 - \geq 24 months = 300 words

- Obtain ratio of nouns to "other" words (see handout)
 - Should be between .3 and .6
 - That is, for every 10 nouns a child produces, he/she typically produces between 3 and 6 other types of words
 - Deaf/hoh children are often "noun heavy"
 - Focus on vocabulary in semantic categories where child's scores are low

Emma: IFSP Goal #1

Goal: Emma will communicate her basic needs and wants during playtime through gestures, vocal approximations, and words/signs

- Pair activity with repetitive language
- Use children's books, music, and finger play to encourage expressive language
- Wait time; wait expectantly for Emma to respond
- Learn and use sign vocabulary relevant to daily routines

Emma: IFSP Goal #2

Goal: Emma will consistently follow basic one step directions

- Use auditory cues to support transitions
- Begin with directions that are predictable w/ visual support and progress to simple, functional directions that are auditory only
- Teach basic prepositions: up/down, in/out, off/on during play

Nicholas: IFSP Goal #1

Goal: Nicholas will be able to answer simple who, what, where, and yes/no questions.

- Consistent use of amplification
- Parents will learn and use 10 new signs a week in daily routines.
- Use children's books to model asking and answering questions
- Play games involving questions

Nicholas: IFSP Goal #2

Goal: Nicholas will consistently use 2 and 3 word phrases in his communication.

- Expand his language by using the "one plus" rule.
- Use language experience books to support vocabulary growth
- Use silly sabotage in play activities
- Talk about what you are doing; act as narrator
- LENA will be used monthly to monitor growth

- To see which words are typically known at each age level go to:
 - http://wordbank.stanford.edu/
- Lists the percentage of children comprehending or producing each individual word at each age
- Can search database by age level, semantic category, specific words, or word frequency