VB-MAPP

Verbal Behavior Milestones Assessment and Placement Program

This Protocol is designed to accompany the VB-MAPP Guide (Sundberg, 2008, 2014). The Guide contains the general instructions and scoring criteria for completing the VB-MAPP Protocol. The Guide also provides placement recommendations for each of the 170 milestones along with suggestions for IEP goals. In addition, the Guide contains a brief description of the basic components of a behavioral approach to language, and definitions and examples of the skills and barriers assessed in the VB-MAPP (i.e., mand, tact, intraverbal, scrolling). In order to gain the maximum benefit from the VB-MAPP, it is essential that the assessor use the VB-MAPP Guide. In addition, it is important that the assessor be familiar with behavior analysis, and a behavioral approach to language.

The VB-MAPP is based on B.F. Skinner's (1957) analysis of verbal behavior, developmental milestones, and field-test data from typically developing children, children with autism, and children with other developmental disabilities. Over the course of several years, speech pathologists, behavior analysts, psychologists, special education teachers, occupational therapists, and parents of children with special needs have provided additional input.

There are five components of the VB-MAPP¹. The first part is the VB-MAPP Milestones Assessment, which constitutes the core of the program. It is designed to provide a representative sample of a child's existing verbal and related skills. The Milestones Assessment contains 170 measurable Milestones that are balanced across 16 skill areas, and 3 developmental levels (0-18 months, 18-30 months, and 30-48 months). The second part is the VB-MAPP Barriers Assessment, which provides an assessment of 24 learning and language acquisition barriers often faced by children with language delays. The third part is the VB-MAPP Transition Assessment, which provides an overall summary assessment of a child's readiness to move to a less restrictive educational setting. The fourth part is the VB-MAPP Task Analysis and Supporting Skills. The task analysis skills are directly related to the target milestones and represent earlier steps in reaching those milestones. The supporting skills supplement the milestones with language, learning, and social skills that should be developed along with the milestones. The supporting skills are not necessarily prerequisites for a specific milestone, or need to be worked on in the exact order that they are presented. Nonetheless, the supporting skills contained in this section of the Protocol are an essential part of any intervention program. The supporting skills are identified in this section of the Protocol with an asterisk (*).

The final component of the overall program is the VB-MAPP Placement and IEP Goals, which is not contained in the Protocol, but is contained in the VB-MAPP Guide. Once a child's skills and barriers have been identified and analyzed, IEP goals can be written and an intervention program can be designed and implemented to meet those goals. Supplemental materials for the VB-MAPP can be found at www.avbpress.com.

References

Skinner, B. F. (1957). Verbal behavior. New York: Appleton-Century-Crofts.

Sundberg, M. L. (2008). The verbal behavior milestones assessment and placement program: The VB-MAPP guide. Concord, CA: AVB Press.

Sundberg, M. L. (2014). The verbal behavior milestones assessment and placement program: The VB-MAPP guide, (2nd ed.) Concord, CA: AVB Press.

¹ For ease of reading, the male gender is used as a pronoun for the child being assessed throughout the VB-MAPP, and sign language can be used as a substitute for speech in all sections.

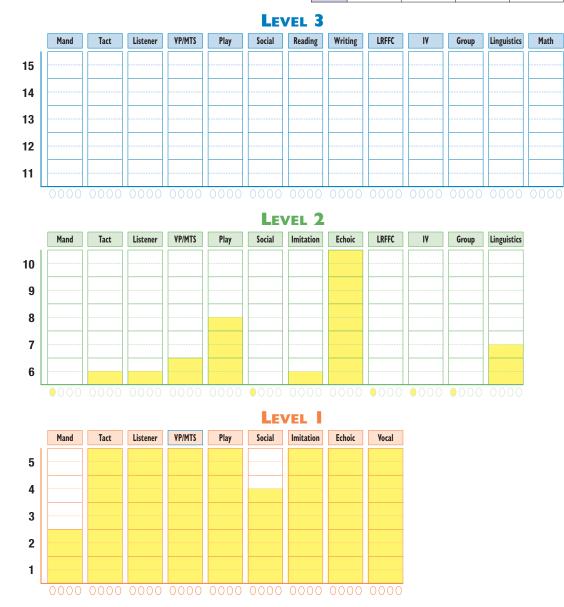
Figure 2-I

A filled-out sample of the Milestones Master Scoring Form.

VB-MAPP Milestones Master Scoring Form

Child's name: Elizabeth						
Date of birth:	6	6/30/05				
Age at testing:	1	1 3 yrs. 2 3 4				

Key:	Score	Date	Color	Tester
IST TEST:	52	6/1/08		MS
2ND TEST:				
3rd test:				
4th test:				



Milestones Assessment: LEVEL | (0-18 MONTHS)

(T) = Direct testing; (O) = Observation; (E) = Either testing or observation; (TO) = Timed observation

		ASSESSMENT			
		l st	2ND	3rd	4тн
Mand	TOTAL SCORE:				

Does the child us	se words, signs, or icons to ask for desired items or activities?
IST 2ND 3RD 4TH	 Emits 2 words, signs, or icon selections, but may require echoic, imitative, or other prompts, but no physical prompts (e.g., <i>cracker, book</i>) (E)
IST 2ND 3RD 4TH	 Emits 4 different mands without prompts (except What do you want?) — the desired item can be present (e.g., music, slinky, ball) (T)
IST 2ND 3RD 4TH	3. Generalizes 6 mands across 2 people, 2 settings, and 2 different examples of a reinforcer (e.g., mands <i>bubbles</i> from mom and dad, inside and outside, a red bottle and a blue bottle) (E)
IST 2ND 3RD 4TH	 Spontaneously emits (no verbal prompts) 5 mands — the desired item can be present (TO: 60 min.)
IST 2ND 3RD 4TH	 Emits 10 different mands without prompts (except, What do you want?) — the desired item can be present (e.g., apple, swing, car, juice) (E)
Comments/notes:	

Таст

Does the child ta	ct people, objects, body parts, or pictures?
IST 2ND 3RD 4TH	 Tacts 2 items with echoic or imitative prompts (e.g., people, pets, characters, or favorite objects) (T)
IST 2ND 3RD 4TH	 Tacts any 4 items without echoic or imitative prompts (e.g., people, pets, characters, or other objects) (T)
IST 2ND 3RD 4TH	3. Tacts 6 non-reinforcing items (e.g., shoe, hat, spoon, car, cup, bed) (T)
IST 2ND 3RD 4TH	4. Spontaneously tacts (no verbal prompts) 2 different items (TO: 60 min.)
IST 2ND 3RD 4TH	5. Tacts 10 items (e.g., common objects, people, body parts, or pictures) (T)
Comments/notes:	

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Assessment

TOTAL SCORE:

Milestones Assessment: LEVEL 2 (18-30 MONTHS)

(T) = Direct testing; (O) = Observation; (E) = Either testing or observation; (TO) = Timed observation

Mand	ASSESSMENTIst2ND3RD4THTOTAL SCORE:
Does the child der tion (MOs)?	nonstrate frequent and spontaneous manding primarily controlled by motiva-
IST 2ND 3RD 4TH	6. Mands for 20 different missing items without prompts (except, e.g., What do you need?) (e.g., mands for paper when given a crayon) (E)
IST 2ND 3RD 4TH	7. Mands for others to emit 5 different actions needed to enjoy a desired activity (e.g., <i>open</i> to get outside, <i>push</i> when on a swing) (E)
IST 2ND 3RD 4TH	8. Emits 5 different mands that contain 2 or more words (not including, <i>I want</i>) (e.g., <i>Go fast. My turn. Pour juice.</i>) (TO: 60 min.)
IST 2ND 3RD 4TH	9. Spontaneously emits 15 different mands (e.g., Let's play. Open. I want book.) (TO: 30 min.)
IST 2ND 3RD 4TH	 Emits 10 new mands without specific mand training (e.g., spontaneously says Where kitty go? without formal mand training) (O)
Comments/notes:	
	Assessment

Таст

Does the child tact i	nouns and verbs?
IST 2ND 3RD 4TH	6. Tacts 25 items when asked, What's that? (e.g., book, shoe, car, dog, hat) (T)
IST 2ND 3RD 4TH	7. Generalizes tacts across 3 examples of 50 items, tested or from a list of known generalizations (e.g., tacts 3 different cars) (T)
IST 2ND 3RD 4TH	8. Tacts 10 actions when asked, for example, What am I doing? (e.g., jumping, sleeping, eating) (T)
IST 2ND 3RD 4TH	9. Tacts 50 two-component verb-noun and/or noun-verb combinations, tested or from a list of known two-component tacts (e.g., <i>washing face, Joe swinging, baby sleeping</i>) (T)
IST 2ND 3RD 4TH	 Tacts a total of 200 nouns and/or verbs (or other parts of speech), tested or from an accumulated list of known tacts (T)
Comments/notes:	

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IST

TOTAL SCORE:

2ND 3RD 4TH

Milestones Assessment: LEVEL 3 (30-48 MONTHS)

(T) = Direct testing; (O) = Observation; (E) = Either testing or observation; (TO) = Timed observation

		Assessment				
		IST	2ND	3rd	4тн	
1AND	TOTAL SCORE:					
Does the child mand for information, mand with different parts of speech, and give directions to						

TOTAL SCORE:

MAND

others? IST 2ND 3rd 4th 11. Spontaneously mands for different verbal information using a WH question word 5 times (e.g., What's your name? Where do I go?) (TO: 60 min.) IST 2ND 3rd 4th 12. Politely mands to stop an undesirable activity, or remove any aversive MO under 5 different circumstances (e.g., Please stop pushing me. No thank you. Excuse me, can you move?) (E) IST 2ND 3rd 4тн 13. Mands with 10 different adjectives, prepositions, or adverbs (e.g., My crayon is broken. Don't take it out. Go fast.) (TO: 60 min.) IST 2ND 3RD 4тн 14. Gives directions, instructions, or explanations as to how to do something or how to participate in an activity 5 times (e.g., You put the glue on first, then stick it. You sit here while I get a book.) **(O)** IST 2ND 3rd 4th 15. Mands for others to attend to his own intraverbal behavior 5 times (e.g., Listen to me... I'll tell you... Here's what happened... I'm telling the story...) (O) Comments/notes:

Таст

Does the child emit a wide variety of tacts, and do they contain several different parts of speech? 4тн Ізт 3rd 11. Tacts the color, shape, and function of 5 objects (15 trials) when each object and question is presented in a mixed order (e.g., What color is the refrigerator? What shape is the valentine? What do you do with the ball?) (This is part tact and part intraverbal.) (T) 4тн IST 2ND **3**RD 12. Tacts 4 different prepositions (e.g., in, out, on, under) and 4 pronouns (e.g., I, you, me, mine) (E) Ізт 2ND 3rd 4тн 13. Tacts 4 different adjectives, excluding colors and shapes (e.g., big, little, long, short) and 4 adverbs (e.g., fast, slow, quietly, gently) (E) 4тн 14. Tacts with complete sentences containing 4 or more words, 20 times (E) 4тн 3rd 15. Has a tact vocabulary of 1000 words (nouns, verbs, adjectives, etc.), tested or from an accumulated list of known tacts (T) Comments/notes:

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Assessment 2ND

3RD

VB-MAPP Barriers Assessment

0 = No problem; **1** = Occasional problem; **2** = Moderate problem; **3** = Persisent problem; **4** = Severe problem

		·	
0. [1. E 2. E 3. E	Negative Behaviors Does not demonstrate any significant negative behaviors Engages in some minor negative behaviors weekly, but recovery is quick Emits a variety of minor negative behaviors daily (e.g., crying, verbal refusal, falling to Emits more severe negative behavior daily (e.g., tantrums, throwing things, property Often emits severe negative behavior that is a danger to himself or others (e.g., agg	destruction	
	nstructional Control (Escape and Avoidance structional Demands)	SCORE:	Assessment Ist 2nd 3rd 4th
I. S 2. E 3. E	ypically cooperative with adult instructions and demands come demands will evoke minor noncompliant behavior, but recovery is quick mits noncompliant behavior a few times a day, with minor tantrums, or other min mits noncompliant behavior several times a day, with longer tantrums and more so Noncompliant behavior dominates the child's day, negative behaviors can be severe	evere behav	iors
3. A	Absent, Weak, or Impaired Mand Repertoire	SCORE:	Assessment Ist 2nd 3rd 4th
1. N 2. N 3. N	The mand repertoire is growing consistently and is in proportion with the other M Mands occur, echoics are strong, but the tact and listener skills (LDs) Milestone sco Mands are limited to a small set of consumable reinforcers, despite strong tacts, LD Mands are very limited, are prompt bound, are rote, scrolling occurs, responses do not operations (MOs), negative behaviors function as mands, excessive or inappropriate ma No effective mands, associated negative behaviors, same problems in #3 above may	ores are high Ds, and echo match the m ands occur	ic skills
4. <i>A</i>	Absent, Weak, or Impaired Tact Repertoire	SCORE:	ASSESSMENT IST 2ND 3RD 4TH
I. T 2. T 3. M	The tact repertoire is growing consistently and is in proportion with the other Mil- Tacts occur, echoics are strong, but listener skills (LDs) markedly outnumber tacts Tact errors occur, strong echoic and LDs, tacts are prompt bound or scrolled, main Many tact errors occur, echoic and LDs are strong, stuck at nouns and verbs, rote to multiple-word LDs, no spontaneity, fails to generalize Minimal tact skills despite strong echoic and LDs, many failed attempts at teaching	tenance rec acts, single v	
5. A	bsent, Weak, or Impaired Motor Imitation	SCORE:	ASSESSMENT IST 2ND 3RD 4TH
 I. N II II II II 	The motor imitation repertoire is growing consistently and is in proportion with the fotor imitation occurs, but the scores are lower than those on the other Milestor mitation doesn't easily generalize, is inappropriate, or there is a dependence on immitation is prompt bound physically or verbally, weak MOs to imitate, has abilities has no imitation skills, or does have imitation skills but they never occur in any fun	ne skills itative prom in other are	ipts

VB-MAPP Transition Assessment

Rate the Child on a Scale of I to 5 for Each Area

				ESSMENT	
6.	Works Independently on Academic Tasks	SCORE:	IST 2NI	D 3RD	4тн
2. 3. 4.	Works independently on academic tasks for at least 30 seconds with no more than Works independently on academic tasks for at least 1 minute with no more than 1 Works independently on academic tasks for at least 2 minutes without adult promp Works independently on academic tasks for at least 5 minutes without adult promp Works independently on academic tasks for at least 10 minutes without adult promp	adult prom oting to stay oting to stay	pt on task on task		
	Generalization of Skills Across Time, Settings, naviors, Materials, and People	SCORE:	Ass Ist 2ni	ESSMENT	4тн
1. 2. 3. 4.	Generalizes a few skills to different people and across time, but not easily across ma Generalizes to new materials, but only after extensive generalization (multiple exem Demonstrates spontaneous stimulus generalization in the natural environment on I Demonstrates spontaneous response generalization in the natural environment on Consistently demonstrates both stimulus and response generalization on the first o	nplar) traini 0 occasions 10 occasior	s		
	Range of Items and Events that Function as Reinforcers	SCORE:	Ass Ist 2N	ESSMENT	4тн
2. 3. 4.	Reinforcers are frequent and mainly edibles, liquids, and physical contact (unlearned Reinforcers are tangible, sensory, or manipulative such as toys, cause-and-effect object Reinforcers are social (e.g., attention), peer mediated (e.g., games), related to specific less frequent; it is these learned reinforcers that are mainly used for teaching Reinforcers are intermittent, social, automatic, and involve a wide range of items and Reinforcers are intermittent, social, age appropriate, varied, and involve verbal inforr	ects, music, o c places (e., d activities	dolls g., parks, s		
9.	Rate of Acquisition of New Skills	SCORE:		ESSMENT	4тн
2. 3. 4.	Typically requires two or more weeks of training sessions and hundreds of trials to Requires at least one week of training sessions and 100 or more trials to acquire a Acquires several new target skills a week averaging less than 50 training trials Acquires several new target skills a week averaging less than 25 training trials Consistently acquires new target skills daily averaging 5 trials or less				
10.	Retention of New Skills	SCORE:	Ass Ist 2N	ESSMENT	4тн
2, 3. 4.	Retains a new skill for at least 10 minutes after it has been scored as correct in a term Retains a new skill for at least 1 hour after it has been scored as correct in a teaching Retains a new skill for 24 hours after it has been scored as correct with 5 or less marked Retains acquired skills after a 24-hour period without maintenance trials Typically retains acquired skills for at least 1 week without maintenance trials	ng session			

Task Analysis and Supporting Skills: LEVEL 2 (18-30 MONTHS)

(T) = Direct testing; (O) = Observation; (E) = Either testing or observation; (TO) = Timed observation

Skill	MAND — LEVEL 2	Met
6-a	Spontaneously emits 5 mands without an object present and without verbal prompts (O)	
6-b	Emits 15 different mands without echoic or imitative prompts — object can be present (E)	
6-c	Mands for 5 different missing items without prompts (except a verbal prompt) (E)	
6-d*	Generalizes 4 mands to 4 different people (E)	
6-e*	Maintains a newly acquired mand for a missing item after 24 hours of no contact with the item (E)	
6-M	Mands for 20 different missing items without prompts (except e.g., What do you need?) (e.g., mands for paper when given a crayon) (E)	
7-a	Mands 5 times with 2 words in a phrase or sentence (e.g., Drink juice.) (TO: 60 min.)	_
7-b	Mands for other individuals to emit 2 different actions with verbal prompts (e.g., go, spin) (E)	
7-c	Emits 2 mands to remove undesirable items or activities (O)	
7-d*	Demonstrates response generalization for two different mands (e.g., calls a filled cup both <i>cup</i> and <i>drink</i> ; calls a dog both <i>dog</i> and <i>Maggie</i>) (O)	
7-e*	Mands contain varied intonation appropriate to both positive and negative MOs 5 times (O)	
7-f*	Mands for help or assistance 2 times (O)	
7-g*	Demonstrates a high frequency of manding (e.g., 15 in a 5 minute period) (O)	
7-M	Mands for others to emit 5 different actions needed to enjoy a desired activity (e.g., open to get outside, push when on a swing) (E)	
8-a	Mands 5 times with 2 words in a phrase or sentence (TO: 60 min.)	
8-b	Mands for information 2 times using what questions (e.g., What's that?) (E)	
8-c	Mands with a pronoun 2 times (e.g., My train.That's yours.) (O)	
8-d*	Mands occur with 3 different carrier phrases (e.g., I want It's my Can I That's my) (O)	
8-e*	Mands with yes and no 4 times (e.g., Do you want a ride? Yes.) (E)	
8-f	Mands for information 2 times using where questions (e.g., Where's Elmo?) (E)	
8-M	Emits 10 different mands that contain 2 or more words (not including <i>I want</i>) (e.g., Go fast. My turn. Pour juice.) (TO: 60 min.)	
9-a	Spontaneously emits 50 mands per day (can be with objects present, but without verbal prompts) (O)	_
9-b	Acquires 2 mands from tact or echoic only training (e.g., sees and tacts a live giraffe, and later mands to go back to see the giraffe) (O)	
9-c	Mands for information 25 times using any type of question word (O)	
9-d	Mands with an adjective 5 times (e.g., <i>big chip</i> , <i>red car</i>) (O)	
9-e	Emits 5 mands in 30 seconds (e.g., during a game or fun activity such as water play) (TO: 30 sec.)	
9- f*	Mands contain 3-word phrases 10 times (e.g., That's my horse.) (O)	
9-M	Spontaneously emits 15 different mands (e.g., Let's play. Open. I want book.) (TO: 30 min.)	

* = Supporting Skill; No * = Task Analysis Step Toward a Milestone