



# Texas School for the Blind and Visually Impaired Outreach Programs

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## Active Learning Study Group

March 29, 2016

3:00-4:00 PM

Presented by

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Developed for

Texas School for the Blind & Visually Impaired

Outreach Programs

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- Download handouts and sign-in roster
- Send sign-in roster to [keithc@tsbvi.edu](mailto:keithc@tsbvi.edu) or fax to 512-206-9320
- Make sure you registered and complete evaluation within 60 days including code for ACVREP/SBEC credit
- View captions in a separate window at [www.streamtext.net/text.aspx?event=TSBVI](http://www.streamtext.net/text.aspx?event=TSBVI)
- Part 1 of code: will be announced at the start of the webinar only. After 3:15 PM you will not be able to get this information, so please do your best to be on time.

## Adobe Connect Webinar Tour

- For tips about screen navigation go to [http://www.connectusers.com/tutorials/2008/11/meeting\\_accessibility/](http://www.connectusers.com/tutorials/2008/11/meeting_accessibility/)
- Location of pods
- Power Point content included in your handout
- Poll participation – enter response in chat if you cannot access the poll

Link to enter room: <http://tsbvi.adobeconnect.com/active/>

Audio: US (Toll Free): 1-888-394-8197 and use access code 324844

## Visual Perceptual Milestones – Our Student

Visual Perception Milestones			
Level	Milestones	Yes	No
0-3 months	Fixates on objects placed at a distance of 20 cm (7-8 inches) from his eyes	✓	
3-6 months	Visually inspects own hand		✓
6-9 months	Finds an object after watching it disappear		✓
9-12 months	Visually explores an object while turning it around		✓
12-15 months	Fixates on paper and crayon while drawing		✓
15-18 months	Points to familiar things in a picture book		✓
18-24 months	Points to distant objects outdoors, e.g. dog, car, bird		✓
24-30 months	Matches objects by their color		✓
30-36 months	Snips on line using scissors		✓
36-42 months	Focuses with concentration while stringing beads		✓
42-48 months	Follows a black line with a colored crayon		✓

Table 1: Visual Perception Milestones

## Visual Perception 0-3 Months – Our Student

Visual Perception					Level: 0-3 Months			
No.	Function	Yes	No	Don't Know	Was able to	Learning has begun	Performed in favorable conditions	Performs spontaneously
V001	Reacts to sunshine visually	✓ 2.16						Photophobic
V002	Reacts to daylight visually	✓ 2.16						
V003	Fixates on big bright areas, e.g. windows			✓ 2.16				Light box
V004	Reacts visually to electric light	✓ 2.16						
V005	Fixates on objects placed at a distance of 20 cm (7-8 inches) from eyes	✓ 2.16						
V006	Follows a preferred toy slowly moved horizontally within a radius of 30 cm (11-12 inches) with eyes	✓ 2.16						Is tracking
V007	Alternately looks at objects if these give a cue of sound	✓ 2.16						
V008	Looks at the eyes and lips of an adult					✓ 2.16		Looks at face
V009	Looks to and from objects without any cue of sound		✓ 2.16					
V010	Looks at black and white figures with fascination		✓ 2.16					Likes color

Table 2: Visual Perception 0-3 Months - Our Student

Total items 0-3 months = 10

Total items marked yes = 7

## Visual Perception 3-6 Months – Our Student

Visual Perception					Level: 3-6 Months			
No.	Function	Yes	No	Don't Know	Was able to	Learning has begun	Performed in favorable conditions	Performs spontaneously
V013	Follows a rolling ball with his eyes			✓ 2.16				
V014	Eye-hand coordination: Reaches towards an object without making contact with it		✓ 2.16					Using a visually directed reach with success
V015	Visually inspects objects placed within a radius of 30-40 cm (11-12 inches)		✓ 2.16					
V016	Visually inspects own hands					✓ 2.16		
V017	Looks repeatedly at and away from an individual		✓ 2.16					
V018	Looks repeatedly at and away from an object		✓ 2.16					
V019	Looks repeatedly at and away from own hands		✓ 2.16					
V020	Looks alternately at something for short or longer time	✓ 2.16						
V021	Tries to grasp the visual object	✓ 2.16						
V022	Looks repeatedly from hand to object		✓ 2.16					
V023	Stares alternately at each hand as if comparing them		✓ 2.16					
V024	Uses both eyes equally often	NA						
V025	Visually interested in more complex figures		✓ 2.16					
V026	Looks at the movements of own hands and fingers					✓ 2.16		

Visual Perception					Level: 3-6 Months			
No.	Function	Yes	No	Don't Know	Was able to	Learning has begun	Performed in favorable conditions	Performs spontaneously
V027	Visually follows activities going on in the surroundings	✓ 2.16						Looking at peer/adults at school
V028	Reacts visually to a golden board	✓ 2.16						Likes shiny objects
V029	Fixates on small shiny objects			✓ 2.16				
V030	Looks at own fingers just after having used them for performing quite a new activity		✓ 2.16					

Table 3: Visual Perception 3-6 Months - Our Student

Total items 3-6 months = 18

Total items marked yes = 4

## Visual Perception 6-9 Months - Our Student

Visual Perception					Level: 6-9 Months			
No.	Function	Yes	No	Don't Know	Was able to	Learning has begun	Performed in favorable conditions	Performs spontaneously
V037	Prefers to look at moving things		✓ 2.16					
V038	Looks at a person and stretches the hand towards him/her					✓ 2.16		Occasionally with Toni, Tammy, Joann
V039	Looks at the result after pushing an object		✓ 2.16					
V040	Looks at the object he has grasped and released						✓ 2.16	Position board and Little Room
V041	Often hunts for a lost objects without finding it		✓ 2.16					
V042	Looks for a released object and grasps it if it is within reach	✓ 2.16						
V043	Finds an object after having watched it disappear		✓ 2.16					
V044	Looks at the contents of a box or another container					✓ 2.16		Picks up pink balls
V045	Imitates actions that he sees, if they correspond with previous attained skills		✓ 2.16					
V046	Visually differentiates primary caregivers from others	✓ 2.16						
V047	Visually recognizes food and favorite toys	✓ 2.16						NA food, tube-fed Favorite toys: bells and beads
V048	Sees small objects		✓					

Visual Perception					Level: 6-9 Months			
No.	Function	Yes	No	Don't Know	Was able to	Learning has begun	Performed in favorable conditions	Performs spontaneously
	within a distance of 1-1 ½ meter (apprx. 1 yd.)		2.16					
V049	Fixates while completing reaching	✓2.16						

**Table 4: Visual Perception 6-9 Months - Our Student**

Total items 6-9 months = 13

Total items marked yes = 4



## Visual Perception 9-12 Months - Our Student

Visual Perception					Level: 9-12 Months			
No.	Function	Yes	No	Don't Know	Was able to	Learning has begun	Performed in favorable conditions	Performs spontaneously
V061	Eye-body coordination: Crawls towards a visible object		✓ 2.16					
V062	Follows a person or object that is moving away with eyes	✓ 2.16						
V063	Visually explores an object while turning it around		✓ 2.16					
V064	Compares visual experiences		✓ 2.16					
V065	Watches the same object as an adult		✓ 2.16					
V066	Visually recognizes persons in their own surroundings					✓ 2.16		Teacher and aides
V067	Looks at pictures for a few seconds at a time		✓ 2.16					

Table 5: Visual Perception 9-12 Months - Our Student

Total items 9-12 months = 7

Total items marked yes = 1

## Haptic-Tactile Perception Milestones Our Student

Haptic-Tactile Perception Milestones			
Level	Milestones	Yes	No
0-3 months	Tactile receptors around the mouth are activated by physical contact with any objects	✓	
3-6 months	Haptic-tactile receptors around the mouth are used to recognize the nipple, the teat, and own hands	✓	
6-9 months	Uses the lips and the tongue for tactile searching of objects		✓
9-12 months	Compares varied tactile qualities of one object		✓
12-15 months	Activates haptic receptors while lifting heavy objects		✓
15-18 months	Activates the haptic receptors in muscles, sinews and joints while pushing heavy objects to and fro		✓
18-24 months	Experiments with haptic-kinaesthetic ability by dragging, e.g. box with toy, a garden hose, etc.		✓
24-30 months	Performs tactile orientation while walking, using bare feet		✓
30-36 months	Experiments with using muscles while riding a tricycle		✓
36-42 months	Experiments with the haptic-kinesthetic ability by balancing on, e.g. curbstones		✓
42-48 months	Experiments with haptic-kinesthetic abilities such as holding onto a pencil, a brush, a spoon, a fork, and other tools		✓

Table 6: Haptic-Tactile Perception Milestones - Our Student

## Haptic-Tactile Perception 0-3 Months Our Student

Haptic-Tactile Perception					Level: 0-3 Months			
No.	Function	Yes	No	Don't Know	Was able to	Learning has begun	Performed in favorable conditions	Performs spontaneously
T001	Tactile receptors around the mouth are activated by physical contact with any object	✓ 2.16						Own hand, toothbrush, beads, rubber potholder
T002	Tactile receptors on the heels and the soles of the feet are activated by physical contact with e.g. the mattress	✓ 2.16						R hand, L not as sensitive
T003	Haptic receptors on the tip of the tongue are activated by sucking activity			✓ 2.16				Not sucking, tube-fed
T004	Reacts to variations in the temperature	✓ 2.16						Doesn't like cold, prefers warm

Table 7: Haptic-Tactile Perception 0-3 Months - Our Student

Total items 0-3 months = 10

Total items marked yes = 7

## Haptic-Tactile Perception 3-6 Months Our Student

Haptic-Tactile Perception					Level: 3-6 Months			
No.	Function	Yes	No	Don't Know	Was able to	Learning has begun	Performed in favorable conditions	Performs spontaneously
T013	Tactile receptors in the hands are activated by physical contact with any object	✓ 2.16						Attempts to grasp what is put in hand
T014	Haptic-tactile receptors around the mouth are used to recognize the nipple, the teat, and own hands					✓ 2.16		Bites hand Tube-fed
T015	Haptic receptors in legs and feet are activated by kicking and pushing		✓ 2.16					Not kicking or pushing with feet
T016	Withdraws the hands if touching something too hot	✓ 2.16						From family

Table 8: Haptic-Tactile Perception 3-6 Months - Our Student

Total items 3-6 months = 4

Total items marked yes = 2

## Haptic-Tactile Perception 6-9 Months Our Student

Haptic-Tactile Perception					Level: 6-9 Months			
No.	Function	Yes	No	Don't Know	Was able to	Learning has begun	Performed in favorable conditions	Performs spontaneously
T025	Uses the tips of fingers for tactile orientation					✓ 2.16		Uses finger tips to pull shirt sleeve, find objects
T026	Uses the lips and the tongue for tactile searching of objects		✓ 2.16					
T027	Uses bare feet for tactile exploration		✓ 2.16					
T028	Activates haptic receptors by banging on objects and surfaces		✓ 2.16					
T029	Combines tactile experiences by touching an objects using both the hands and the mouth		✓ 2.16					
T030	Repeats activities of haptic-tactile nature	✓ 2.16						Likes to pull elastics pop object over board
T031	Sucks own toes		✓ 2.16					
T032	Touches the food using the fingers		✓ 2.16					Reaches for other students food trays
T033	Prefers to touch objects with rough rather than smooth surfaces		✓ 2.16					Prefers smooth objects, but not really exploring tactually
T034	Recognizes tactile experiences		✓ 2.16					Runs hands down beads

Table 9: Haptic-Tactile Perception 6-9 Months - Our Student

Total items 6-9 months = 10  
 Total items marked yes = 1



## Olfactory & Gustatory Perception Milestones – Our Student

Olfactory & Gustatory Perception Milestones			
Level	Milestones	Yes	No
0-3 months	Recognizes the mother by her smell		?
3-6 months	Sputters and coughs as a reaction to liquid that does not taste like milk (tube fed – limited experience with food/liquid)		NA
6-9 months	Smells the food before eating it		✓
9-12 months	Prefers food with a sweet taste (likes pudding and yogurt to taste)	✓	
12-15 months	Wants to smell everything		✓
15-18 months	Wants to taste all kinds of food, but eats only the kind slightly seasoned		✓
18-24 months	Prefers sweet juice to milk		✓
24-30 months	Wants to smell flowers		✓
30-36 months	Distinguishes between pleasant and unpleasant smells		✓
36-42 months	Wants salt on all food		✓
42-48 months	Begins to understand that something is poisonous		✓

Table 10: Olfactory & Gustatory Perception Milestones - Our Student

## Olfactory & Gustatory Perception 0-3 Months – Our Student

Olfactory & Gustatory Perception						Level: 0-3 Months		
No.	Function	Yes	No	Don't Know	Was able to	Learning has begun	Performed in favorable conditions	Performs spontaneously
J001	Finds the nipple by means of the olfactory sense			✓ 3.16				
J002	Turns away from food not having the smell of milk			✓ 3.16				
J003	Recognizes the mother by her smell			✓ 3.16				
J004	Refuses something tasting strongly sour, bitter or salty (Likes lemons)		✓ 3.16					

Table 11: Olfactory & Gustatory Perception 0-3 Months - Our Student

Total items 0-3 months = 4

Total items marked yes = 0



## Olfactory & Gustatory Perception 3-6 Months – Our Student

Olfactory & Gustatory Perception						Level: 3-6 Months		
No.	Function	Yes	No	Don't Know	Was able to	Learning has begun	Performed in favorable conditions	Performs spontaneously
J013	Distinguishes between the odor of several people (Doesn't seem to notice smells particularly)			✓ 3.16				
J014	Sputters and coughs as a reaction to liquid that does not taste like milk		✓ 3.16 NA					
J015	Accepts finely pureed unseasoned food		✓ 3.16 NA					

**Table 12: Olfactory & Gustatory Perception 3-6 Months - Our Student**

Total items 3-6 months = 3

Total items marked yes = 0

## Language Milestones – Our Student

Language			
Level	Milestones: Comprehension	Yes	No
0-3 months	Cries in a varied way to have a need fulfilled		✓
3-6 months	Imitates babbling		✓
6-9 months	Comprehends the meaning of activities of others, e.g. that have a bib put on, means a meal		✓
9-12 months	Recognizes the names of relatives		✓
12-15 months	Comprehends the naming of some objects, e.g. shoe, cup, spoon, comforter, blanket		✓
15-18 months	Comprehends statements about everyday situations		✓
18-24 months	Comprehends the concept of “up”, “down”, “empty” and “full”		✓
24-30 months	Comprehends the spatial concepts as “over”, “under”, “behind”, “in front of”		✓
30-36 months	Comprehends the concept of “in a minute” and “tomorrow”		✓
36-42 months	Comprehends the concepts like “upper”, “bottom”, “next to”		✓
42-48 months	Comprehends the concept of “right” and “left”		✓

Table 13: Language Milestones - Comprehension - Our Student

Language			
Level	Milestones: Non-verbal	Yes	No
0-3 months	Smiles as a reply to smiles and statements	✓	
3-6 months	Turns the head away	✓	
6-9 months	Uses a certain movement to call for an adult (occasionally will vocalize and raise hand to adult nearby if she wants to have help or change activity/location)	✓	
9-12 months	Shakes his head to express “no”		✓
12-15 months	Points to what he wants		✓
15-18 months	Claps hands to express delight with the result of own activity		✓
18-24 months	Looks to and away from an adult as a contact game		✓
24-30 months	Hides to avoid greeting a stranger		✓
30-36 months	Protests against an action or a decision by hitting the adult with an open hand		✓
36-42 months	Throws a tantrum to express a need or a wish		✓
42-48 months	Hops and dances to express joy and expectation		✓

Table 14: Language Milestones - Non-Verbal - Our Student

<b>Language</b>			
<b>Level</b>	<b>Milestones: Verbal</b>	<b>Yes</b>	<b>No</b>
0-3 months	Babbles homogeneously		✓
3-6 months	Experiments with babbling		✓
6-9 months	Replies to statements by babbling, using vowels		✓
9-12 months	Replies to statements by babbling, using consonants		✓
12-15 months	Pronounces 2 words, easily understood		✓
15-18 months	Uses up to 10 words		✓
18-24 months	Asks "what is that?"		✓
24-30 months	Repeats sentences of 3-4 words		✓
30-36 months	Speaks to other children		✓
36-42 months	Uses verb grammatically correctly		✓
42-48 months	Pronounces own full name		✓

**Table 15: Language Milestones - Verbal - Our Student**

## Language 0-3 Months – Our Student

Language						Level: 0-3 Months		
No.	Function	Yes	No	Don't Know	Was able to	Learning has begun	Performed in favorable conditions	Performs spontaneously
<b>Non-Verbal Communication</b>								
S002	Opens and closes mouth					✓ 3.16		
S003	Performs mass movements to express joy and interest	✓ 3.16						
S004	Smiles as a reply to smiles and statements (with favorite people)						✓ 3.16	
S005	Contacts by hitting the adult's face using a clenched hand		✓ 3.16					
<b>Vocalizations - Verbal</b>								
S008	Cries in an indiscriminate way	✓ 3.16						
S009	Gurgles		✓ 3.16					
S010	Babbles homogeneously (ahh, ahh)	✓ 3.16						
S011	Cries in a varied way		✓ 3.16					

Table 16: Language 0-3 Months - Our Student

Total items 0-3 months – Non-verbal = 4

Total items marked yes – Non-verbal = 1

Total items 0-3 months – Verbal = 4

Total items marked yes – Verbal = 2

## Language 3-6 Months – Our Student

Language						Level: 3-6 Months		
No.	Function	Yes	No	Don't Know	Was able to	Learning has begun	Performed in favorable conditions	Performs spontaneously
<b>Non-Verbal Communication</b>								
S014	Opens and closes hands		✓ 3.16					
S015	Flops the arms		✓ 3.16					
S016	Turns head away (will also turn whole body away if in lying position)	✓ 3.16						
S017	Nods as a reply to statements		✓ 3.16					
S018	Kicks to express joy		✓ 3.16					
S019	Smiles	✓ 3.16						
S020	Reaches out arm/hand towards interesting things	✓ 3.16						
<b>Vocalizations - Verbal</b>								
S024	Squeals with joy		✓ 3.16					
S025	Cries to get a need fulfilled	✓ 3.16						
S026	Protests by screaming		✓ 3.16					
S027	Experiments with babbling, mostly using vowel sounds except for a few lip-consonant sounds		✓ 3.16					
S028	Babbles in a varied way; two-syllable sounds with varied intensity of voice		✓ 3.16					
S029	Laughs briefly at fulfilment of expected function of objects					✓ 3.16		
S030	Hums and growls while playing		✓ 3.16					
S031	Whines as part of playing with the voice		✓ 3.16					

Language						Level: 3-6 Months		
No.	Function	Yes	No	Don't Know	Was able to	Learning has begun	Performed in favorable conditions	Performs spontaneously
S032	Repeats a series of babbling: a-ga, a-ga		✓ 3.16					
S033	Repeats own vocalizations		✓ 3.16					
S034	Imitates babbling		✓ 3.16					

**Table 17: Language 3-6 Months - Our Student**

Total items 3-6 months – Non-verbal = 7  
 Total items marked yes – Non-verbal = 3  
 Total items 3-6 months – Verbal = 11  
 Total items marked yes – Verbal = 1

## Language 6-9 Months – Our Student

Language						Level: 6-9 Months		
No.	Function	Yes	No	Don't Know	Was able to	Learning has begun	Performed in favorable conditions	Performs spontaneously
<b>Non-Verbal Communication</b>								
S038	Reaches out towards an approaching individual (with Dad, occasionally with favorite staff)						✓ 3.16	
S039	Listens intently to familiar words, e.g. "mom" and "food"		✓ 3.16					
S040	Uses a certain movement to call an adult		✓ 3.16					
S041	Comprehends the activity of others, e.g. that having a bib put on , means a meal		✓ 3.16					
S042	Reacts on own name					✓ 3.16		
S043	Stops playing when own name is pronounced		✓ 3.16					
S044	Comprehends the naming of familiar objects		✓ 3.16					
S045	Points to daddy or mom when hearing the names "daddy" and "mom"		✓ 3.16					
<b>Vocalizations - Verbal</b>								
S050	Babbles using consonants like "ma", "da", "go"		✓ 3.16					
S051	Babbles using series of three syllables, e.g. "ma-ma-ma"		✓ 3.16					
S052	Replies to statements by using vowel babbling		✓ 3.16					

Table 18: Language 6-9 Months - Our Student

Total items 6-9 months – Non-verbal = 8

Total items marked yes – Non-verbal = 0

Total items 0-3 months – Verbal = 3

Total items marked yes – Verbal = 0

### Assessment of levels of function

	0-3 months	3-6 months	6-9 months	9-12 months	12-15 months	15-18 months	18-24 months	24-30 months	30-36 months	36-42 months	42-48 months
Gross Movement	green	yellow	red	red							
Fine Movement	yellow	red	red	red							
Mouth Movement	yellow										
Visual Perception	yellow	red	red	red							
Auditory Perception	yellow										
Haptic-tactile Perception	yellow	red	red								
Smell/taste (Olfactory/Gustatory)	yellow										
Spatial Perception											
Object Perception											
Language Non-verbal	yellow	red	red								
Language Verbal	yellow										
Comprehension of Language	yellow										
Social Perception	green	green	yellow	red							
Emotional Perception	green	yellow	red	red							
Play and Activities											
Toileting Skills											
Undressing & Dressing											
Personal Hygiene											
Eating Skills											

Table 19: Assessment of Levels of Function

Not ready to work at this level though some splinter skills are demonstrated- red

Needs work at this level - yellow

Has mastered this level - green



## Texas School for the Blind & Visually Impaired Outreach Programs



Figure 1 TSBVI logo.



This project is supported by the U.S. Department of Education, Special Education Program (OSEP). Opinions expressed here are the authors and do not necessarily represent the position of the Department of Education.

Figure 2 IDEAs that Work logo and OSEP disclaimer.