

# Symptoms/Interventions

Symptoms	Literacy Interventions/materials
<b>Lack expressive communicative Language:</b> <b>Level 2 – midbrain</b> <b>Level 3 – 8-26 cortex</b>	<b>Talking books, encourage simple communication devices, pointing, keyboarding, sign language mid – creating meaning sounds (4-13) cortex – two words of speech use spontaneously(8 – 26)</b>
<b>Nonverbal</b>	<b>Sign Language, communication devices (1 – 13 mos.)</b>
<b>Little to no eye contact</b> <b>Level 0 – medulla</b> <b>Level 1 Pons</b>	<b>Use of good contrast materials, position – straddle</b> <b>Medulla – light reflex, Pons – outline perception, horizontal tracking</b>
<b>Over-use peripheral vision</b> <b>Level – 2 – midbrain</b>	<b>Use of contrast color, position activities in central vision, easy to manipulate, large items, large puzzles position – limited movement, straddle in chair or floor and more (4-13 months detail perception vertical tracking, prehensile grasp) midbrain</b> <b>©2016</b>

# Symptoms/Interventions

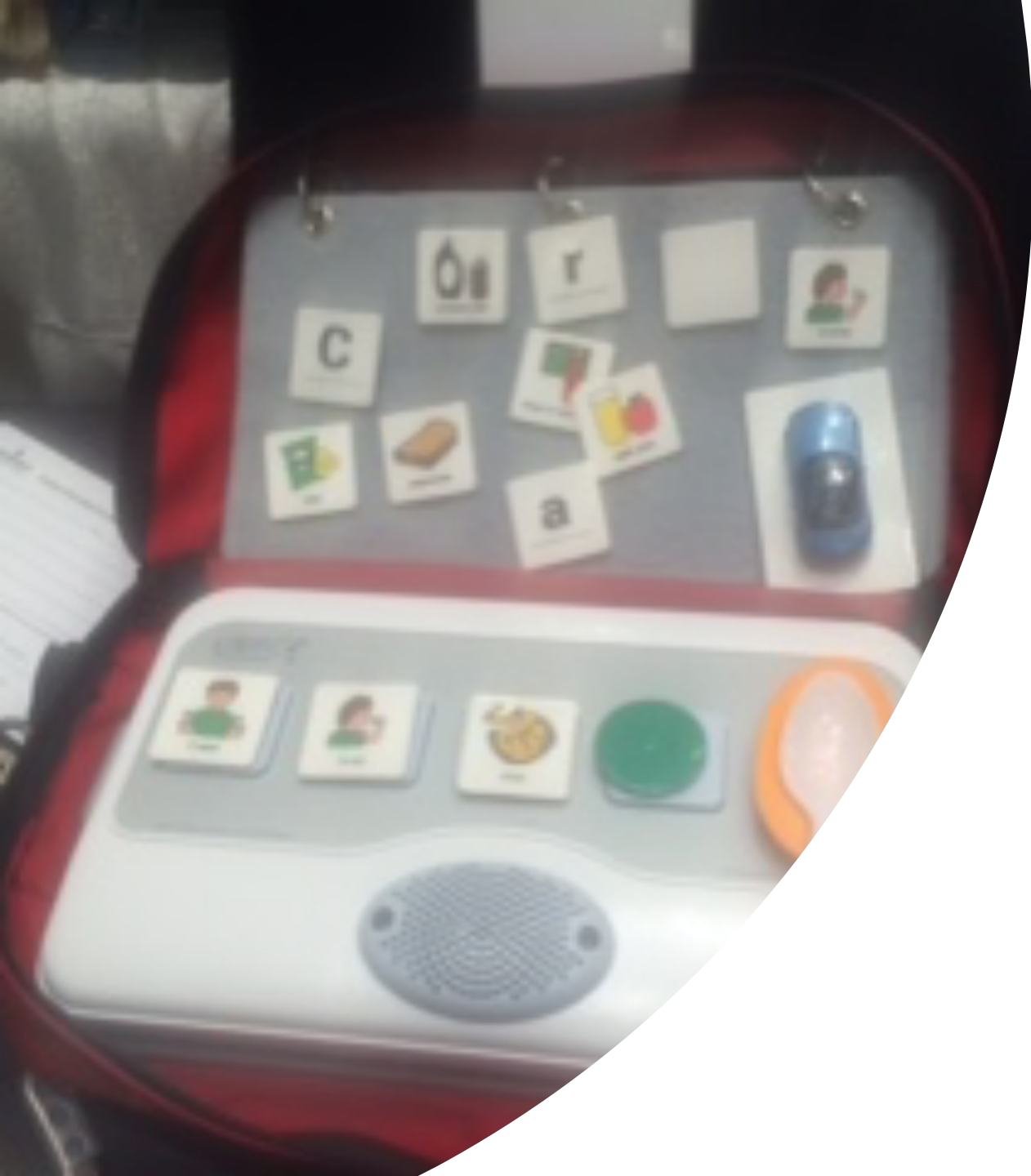
Symptoms	Literacy Interventions/materials
Under- use of central detail- vision Level 3 – cortex	Create boundaries, neon tape, lap tray, sit in front of client, use books that provide good visual contrast, on cognitive level. Written expression- tools that fits with levels (where is he at) (cortex – 8-26 mos. Convergence simple depth perception)
Not point at objects or things of interest, or demonstrate interest Level - 0 Level 1	Use bright pictures, back lights (birth- medulla – light reflex , Pons – outline perception, horizontal tracking)
Give unrelated answers to questions	Cognitive Use books that are on the child's level, make relationship to, objects, position is important
Flap their hands, rock their body, or spin in circles Level – 1 Pons Level – 2 midbrain	Provide objects that associate with books, large objects Position on floor, lay on floor Home – floor games and puzzles with various size knobs Pons and midbrain
Short attention span	Age appropriate books – sample books Home – floor games, toys that requires tracking, visual contrast



Brain	Sensory Input			Sensory Output		
	Visual	Auditory	Tactile	Manual	Language	Mobility
<b>C O R T E X</b>	Differentiation of similar but unlike simple visual symbols	Understanding of 10 -25 words of speech and two words	Differentia- tion of similar but unlike objects	Cortical opposition bilaterally & simultaneously	10 -25 words of speech and two words	Walking with arms below waist
<b>Midbrain</b>	Detail perception Vertical tracking	appreciation meaningful sounds		Prehensile grasp	Creating meaningful sounds	
<b>PONS</b>	Outline perception, Horizontal Tracking			Vital Release	Vital crying in response to threats	

<b>Level 2 (4 – 13 months) Fair (midbrain)</b>	<b>Difficulty coordinating visual/motor skills.</b> <b>Uses the whole hand, completes 25% of activity. Visual are develop vertical tracking, beginning of convergence</b> <b>©2016</b>
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<b>Symptoms</b>	<b>Literacy Interventions/materials</b>
<b>Lack expressive communicative Language: Level 2 – midbrain</b>	<b>Talking books, encourage simple communication devices, pointing, keyboarding, sign language mid – creating meaning sounds (4-13) cortex – two words of speech use spontaneously (8 – 26)</b>
<b>Nonverbal</b>	<b>Sign Language, communication devices (1 – 13 mos.)</b>



# Non-Verbal Prox



Tobii

# Non-verbal



<b>Level 3 (8 – 26 months) Fair + (cortex)</b>	<p>Attention skills are minimum, manipulates objects using either hand (1<sup>st</sup> finger/thumb). Tends to complete activities 50% of the time. eyes convergence, simple depth perception, both eyes working together. Recognize pictures. Appreciate symbols, (visual depth perception) picture of a cat represent a cat</p> <p>©2016</p>
<b>Level 2 (4 – 13 months) Fair (midbrain)</b>	<p>Difficulty coordinating visual/motor skills. Uses the whole hand, completes 25% of activity. Visual are develop vertical tracking, beginning of convergence</p> <p>©2016</p>
<p>Over-use peripheral vision Level – 2 – midbrain</p>	<p>Use of contrast color, position activities in central vision, position – limited movement, straddle in chair or floor and more (4-13 months detail perception vertical tracking, prehensile grasp) midbrain, easy to manipulate, large items, large puzzles</p>
<p>Under- use of central detail- vision Level 3 – cortex</p>	<p>Create boundaries, neon tape, lap tray, sit in front of client, use books that provide good visual contrast, on cognitive level. Written expression- tools that fits with levels (where is he at) (cortex – 8-26 mos. Convergence simple depth perception)</p>





Written  
expression/  
contrast (use of  
hand/tool)



Visual  
contrast  
cortex  
Levels 3- 5

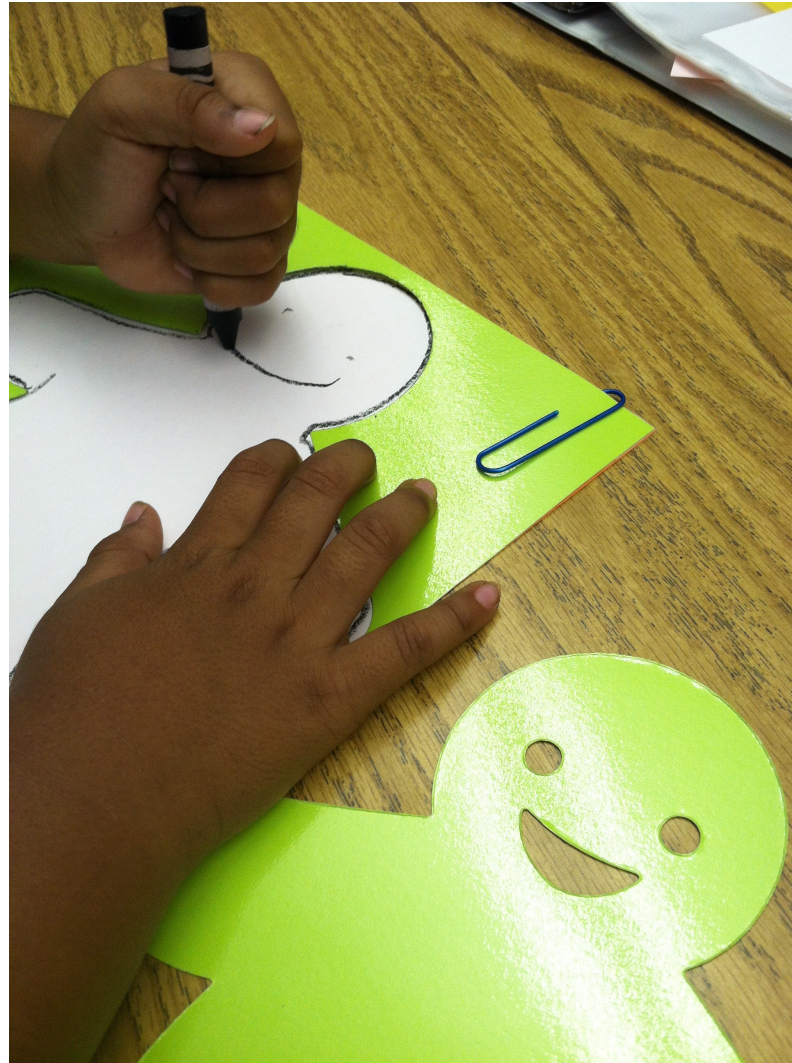






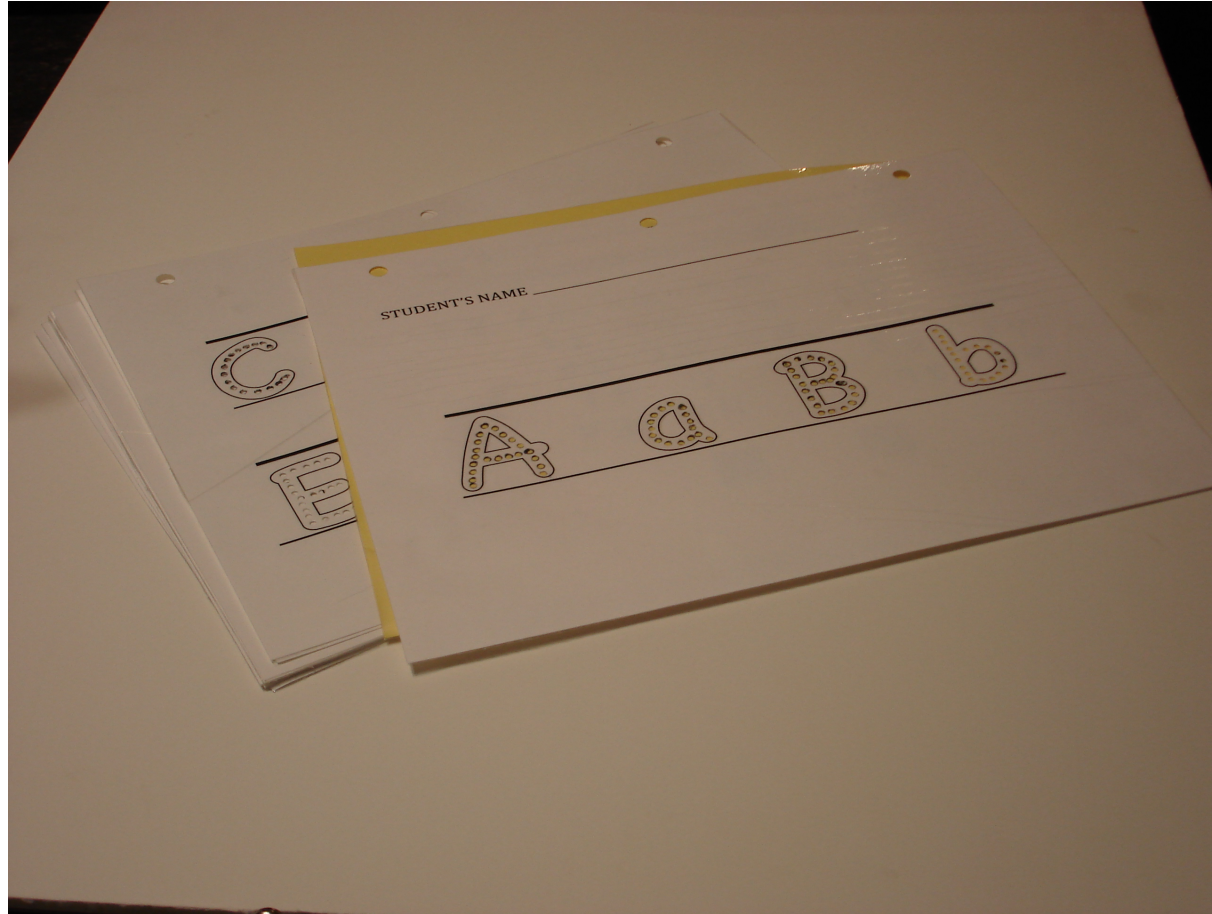
Written  
expression

Beginning written expression(provide tactile ...





# Visual contrast



# Contrast/tactile

