

THE FAMILY HOPE CENTER

INTEGRATIVE AND DEVELOPMENTAL PROGRESSION CHART



BRAIN LEVEL		MEDULLA OBLONGATA • 1	PONS • 2	MIDBRAIN • 3	
DEVELOPMENTAL PERIOD		BIRTH TO 2 WEEKS	2 WEEKS TO 2 MONTHS	2 TO 8 MONTHS	
BRAIN FUNCTION	↑ SENSORY ↓	SEEING AND READING	<ul style="list-style-type: none">• Display a fast pupil contraction and dilation reflex in both eyes	<ul style="list-style-type: none">• Follow light in darkened room• Recognize and see shapes• Consistently track people and objects	<ul style="list-style-type: none">• Recognize detail such as a parent's face or a favorite toy from a distance of three meters• See changes in facial expressions
		HEARING AND UNDERSTANDING	<ul style="list-style-type: none">• Display an immediate, yet controlled, startle response reflex to a repeated loud and sudden noise	<ul style="list-style-type: none">• Respond fearfully to a loud and threatening sound, such as thunder	<ul style="list-style-type: none">• Recognize and appreciate voice inflection• Quickly hear sounds in the environment• Quickly locate the source of a sound in the environment• Understand the meaning of familiar environmental sounds• Filter sounds and can be at ease in a noisy environment
		SENSATION AND TACTILITY	<ul style="list-style-type: none">• The newborn baby displays a positive babinski reflex response• The toddler displays a negative plantar reflex response	<ul style="list-style-type: none">• Feel painful / vital sensations such as: cold, hot and a pin or needle, <u>throughout</u> the body• Feel painful / vital sensations <u>instantly</u> throughout the body• Feel painful / vital sensations <u>fully</u>, in terms of intensity, throughout the body	<ul style="list-style-type: none">• Feel meaningful sensations such as: light touch, stroking, kissing, tickling, warm and cool temperatures, <u>throughout</u> the body• Feel meaningful sensations <u>instantly</u> throughout the body• Feel meaningful sensations <u>fully</u> throughout the body
	↑ MOTOR ↓	LOCOMOTION AND MOBILITY	<ul style="list-style-type: none">• Independently and freely move all the limbs and joints in the body without restriction	<ul style="list-style-type: none">• Independently crawl on stomach across the floor 1 meter• Independently crawl as a consistent means of transportation• Independently crawl in a coordinated pattern	<ul style="list-style-type: none">• Independently creep on hands and knees across the floor 3 meters• Independently creep on hands and knees as a means of transportation• Independently creep on hands and knees in a coordinated crosspattern
		COMMUNICATION AND SPEECH	<ul style="list-style-type: none">• Demonstrate an initial birth cry• Has the ability to cry to express needs	<ul style="list-style-type: none">• Cry in response to pain and distress• Cry loud enough to be heard and rescued	<ul style="list-style-type: none">• Make many different sounds to relay emotions such as: happy, hungry, and tired• Make vowel and consonant sounds
		MANUAL AND WRITING	<ul style="list-style-type: none">• Reflexively grasp an object placed in hands• Has a strong grasp reflex in both hands	<ul style="list-style-type: none">• Release an object quickly and completely when in pain or danger – with either hand	<ul style="list-style-type: none">• Reach out and grab an object with a prehensile grasp with either hand• Release an object voluntarily from either hand• Pass an object from one hand to another• Begin feeding using hands
	↑ SOCIAL ↓	EMOTIONAL AND SOCIAL	<ul style="list-style-type: none">• Comforted by touch, sound or smell• Accept and seek security	<ul style="list-style-type: none">• Adjust to daily routine• Express needs with various cries• Show interest in the environment	<ul style="list-style-type: none">• Show interest and interacts with parents• Begin to seek affection• Explore environment consistent with locomotion• Recognize when a familiar object disappears• Smile to a smile

NAME: _____ DATE OF BIRTH: _____ TODAY'S DATE: _____

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INTEGRATIVE AND DEVELOPMENTAL PROGRESSION CHART



BRAIN LEVEL		CORTEX • 4	CORTEX • 5	CORTEX • 6	
DEVELOPMENTAL PERIOD		8 TO 12 MONTHS	12 TO 18 MONTHS	18 TO 36 MONTHS	
BRAIN FUNCTION	↑ SENSORY ↓	SEEING AND READING	<ul style="list-style-type: none">Bring eyes together and converges vision on an objectSee in three dimensions and thus perceives depth to objects	<ul style="list-style-type: none">Perceive pictures as an abstract representation of concrete objects	<ul style="list-style-type: none">Recognize and identify mathematical numbersRecognize and identify letters of the alphabet
		HEARING AND UNDERSTANDING	<ul style="list-style-type: none">Understand at least 10 common words and basic coupletsRemember simple events and familiar peopleUnderstand basic time concepts such as "wait" and "in a moment"Understand simple requests	<ul style="list-style-type: none">Understand at least 50 words as well as phrases and simple sentencesUnderstand a two-step requestUnderstand the time relationship of a typical day	<ul style="list-style-type: none">Understand thousands of words and simple paragraphsFollow a basic three-step requestUnderstand concepts such as: yesterday, today and tomorrowUnderstand sophisticated abstract concepts such as: "underneath", "on top of" and "around"
		SENSATION AND TACTILITY	<ul style="list-style-type: none">Understand the tactile relationship in a three-dimensional object	<ul style="list-style-type: none">Locate favorite toy by feel with each hand, without looking	<ul style="list-style-type: none">Feel and identify an object by its physical description (hard, soft, round, flat) with each hand
	↑ MOTOR ↓	LOCOMOTION AND MOBILITY	<ul style="list-style-type: none">Independently walk 3 meters across the room using the arms for balance	<ul style="list-style-type: none">Stand up in the middle of the floor independently and walk 3 meters, without using the arms for balanceWalk as a means of transportation	<ul style="list-style-type: none">Walk in a coordinated crosspatternIndependently run 10 meters nonstopIndependently run in a coordinated crosspatternHop in place using 1 foot
		COMMUNICATION AND SPEECH	<ul style="list-style-type: none">Voluntarily say 4 words of speech that is understood by parents	<ul style="list-style-type: none">Voluntarily say 20 single wordsVoluntarily say at least three couplets	<ul style="list-style-type: none">Voluntarily put an organized sentence togetherVoluntarily tell an organized short storySpeak clearly
		MANUAL AND WRITING	<ul style="list-style-type: none">Uses either hand, cortically opposes the thumb and fingerBegin feeding using a utensilHold a cup and drink from it	<ul style="list-style-type: none">Use both hands together, cortically opposing the thumb and fingerBuild structures using blocksBegin basic dressing and undressing – taking off socks / shoes	<ul style="list-style-type: none">Use the hands for sophisticated skills quickly and easily as well as peers (button, zip, screw)Dress and undress using one hand in a lead rolePour liquid using one hand in a lead role
	↑ SOCIAL ↓	EMOTIONAL AND SOCIAL	<ul style="list-style-type: none">Enjoy playing interactive gamesMisses parents and objects when moved out of sightStart to imitate behaviorAssert position; begin to misbehaveExperiment with a variety of objects	<ul style="list-style-type: none">Make good eye contactExpress affection and a wide range of emotions appropriatelyPlay along side children with adult supportEngage in purposeful activities with parents in the same room	<ul style="list-style-type: none">Share toys and play with others with supervisionEngage in fantasy games and role-playing to express emotion and concept formationSpontaneously helpRefers to self using "me" or "I" - feels shame and pride

CHRONOLOGICAL AGE: _____

NEUROLOGICAL AGE: _____

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INTEGRATIVE AND DEVELOPMENTAL PROGRESSION CHART



BRAIN LEVEL		CORTEX • 7	CORTEX • 8
DEVELOPMENTAL PERIOD		36 TO 72 MONTHS	CHRONOLOGICAL AGE LEVEL
BRAIN FUNCTION	SENSORY	SEEING AND READING	<ul style="list-style-type: none"> Read at least 50 single words and simple phrases Read in content and speed equal to peers Demonstrate uniform hemispheric dominance
		HEARING AND UNDERSTANDING	<ul style="list-style-type: none"> Understand complex paragraphs and stories Follow a common four-step request Understand the basic concepts in organized games Can be safely left alone for short periods Understand simple mathematical concepts Understand sophisticated life concepts and relationships equal to peers Demonstrate uniform hemispheric dominance
		SENSATION AND TACTILITY	<ul style="list-style-type: none"> Determine the difference between sophisticated and similar objects with each hand, i.e. can determine the difference between two sides of a coin with each hand Demonstrate uniform hemispheric dominance
	MOTOR	LOCOMOTION AND MOBILITY	<ul style="list-style-type: none"> Independently hop across the room 5 meters nonstop Demonstrate uniform hemispheric dominance Become proficient in new physical challenges equal to peers Learn new physical skills in a time frame equal to peers
		COMMUNICATION AND SPEECH	<ul style="list-style-type: none"> Voluntarily use paragraphs to express ideas Sequentially express information such as a short story, event, or movie Speak clearly Voluntarily speak and express ideas equal to peers
		MANUAL AND WRITING	<ul style="list-style-type: none"> Draw people with distinct body parts Voluntarily write 10 words Voluntarily write 5 couplets Write clearly Write organized sentences Write organized paragraphs Write thoughts spontaneously and voluntarily equal to peers Write clearly Demonstrates uniform hemisphere dominance
	SOCIAL	EMOTIONAL AND SOCIAL	<ul style="list-style-type: none"> Work with others and seek out opportunities to solve problems for the family Engage in a team or group setting and follow the rules of the group Understand consequences of behavior Begin to identify possible causes of emotions Express emotions and needs with a consideration towards others Engage in group activities with peers independently Able to defer gratification Able to develop friendships Self motivated to supply for their own needs and others

INITIAL CHRONOLOGICAL AGE: _____

INITIAL NEUROLOGICAL AGE: _____