



SEVEN KEY VISION DEVELOPMENT MILESTONES TO MONITOR FROM BIRTH TO FIRST BIRTHDAY



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http://nationalcenter.preventblindness.org/sites/default/files/national/documents/Key_vision_questions_to_ask_n_year_1_10.31.16.pdf



Check box if child meets milestone – Circle “no” if not meeting milestone and move to Next Steps



AGE (Milestones may vary up to 6 weeks.)	MILESTONE	IMPORTANCE OF MILESTONE	QUESTIONS TO ASK OR BEHAVIORS TO MONITOR	NEXT STEPS
<p>6 weeks to no later than 8 weeks</p>  <p>http://thyblackman.com/wp-content/uploads/2011/05/blackdadandnewborn.jpg</p>	<p>1st Milestone</p> <ul style="list-style-type: none"> Maintains stable eye contact when awake and alert and initiated by parent or caregiver 	<ul style="list-style-type: none"> Babies have innate attraction to faces, especially smiling faces. Creates pleasant feeling for baby and parent. Stable eye contact with parents or caregivers is essential to developing bonding and communication. Lack of stable eye contact can interfere with early emotional and general development. 	<ul style="list-style-type: none"> <input type="checkbox"/> Does baby maintain stable eye contact when awake and alert and initiated by parent and/or caregiver? (If “no”, move to Next Steps.) 	<ul style="list-style-type: none"> <input type="checkbox"/> Refer for eye exam for an assessment to include refraction and accommodation, if possible, to determine if baby can see parent’s/caregiver’s face. <input type="checkbox"/> If vision is found to be normal, refer to primary care provider to further discuss concerns. <input type="checkbox"/> Refer to Birth to 3 Early Intervention program for supporting development of total communication through all senses, including hands and motor functions. <input type="checkbox"/> In interim, help parents/caregivers help baby to develop communication through all the senses. <ul style="list-style-type: none"> Example: Talk close to baby’s face while helping baby to feel parent’s or caregiver’s face.

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<p>During 3rd and 4th months</p>  <p> http://images.parenting.mdp.cdn.com/sites/parenting.com/files/styles/facebook_og_image/public/600_is_your_baby_smiling.jpg?itok=jZFw764v </p>	<p>2nd Milestone</p> <ul style="list-style-type: none"> • Lively communication with social smile 	<ul style="list-style-type: none"> • A social smile means the brain is maturing, baby can vary accommodation, and baby sees clearly at several distances. • Baby's social smile boosts bonding and is one of the cornerstones of communication between baby and parent/caregiver. • A smile from baby as parent and/or caregiver approaches shows baby has learned a new skill: to be active socially instead of passive participant only when parent or caregiver smiles first. 	<ul style="list-style-type: none"> <input type="checkbox"/> When parent approaches baby, does baby respond with a smile? (If "no", move to Next Steps.) 	<ul style="list-style-type: none"> <input type="checkbox"/> Refer for eye exam to assess refraction and accommodation to determine whether baby can see parent/caregiver approaching. <input type="checkbox"/> Refer to Birth to 3 Early Intervention program for assistance in communication between baby and parent/caregiver. <input type="checkbox"/> Check in with Mother and gently ask these questions – without frightening Mother – to look at how Mother is doing emotionally and physically (perhaps Mother needs support): <ul style="list-style-type: none"> • Did the birth go smoothly? • Do you have help in caring for baby? • Is baby sleeping several hours at a time? • Is Mother sleeping? • If Mother seems distressed, brainstorm with Mother on ways to support Mother (i.e., family member cares for baby while Mother sleeps).

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<p>3rd, 4th, or, maybe, 5th month</p>  <p>https://i.ytimg.com/vi/GmgoHKead_M/maxresdefault.jpg</p>  <p>http://i18.picdn.net/shutterstock/videos/8085733/thumb/12.jpg</p>	<p>3rd Milestone</p> <ul style="list-style-type: none"> • Awareness of hands and exploration of hands with mouth 	<ul style="list-style-type: none"> • Baby's hands are important for helping vision develop. • Awareness of hands leads to exploring the hands with the mouth, which leads to using the hands to explore baby's world. • Exploration with hands gives concrete information about abstract objects, including size, form, surface quality, and weight. • This concrete information will be stored in baby's brain to combine with the visual concept of each object. 	<ul style="list-style-type: none"> <input type="checkbox"/> Does baby watch her hands? (If "no", move to Next Steps.) <input type="checkbox"/> Does baby bring his hands to midline and to his mouth? (If "no", move to Next Steps.) 	<ul style="list-style-type: none"> <input type="checkbox"/> Refer for eye exam to assess refraction and accommodation to determine whether baby can see his hands. <input type="checkbox"/> If baby is not noticing hands, maybe baby cannot see hands. <input type="checkbox"/> Refer to Birth to Three Early Intervention, with emphasis on helping baby to observe hands, bring hands to mid-line, and eye-hand coordination. <input type="checkbox"/> Parent and/or caregiver can help baby explore hands and bring objects and hands to mid-line, for example: <ul style="list-style-type: none"> • Gently use baby's elbows to bring hands to mid-line. Make it a game. • Use small objects with variation in size, weight, and texture to help baby use hands to explore. Some toys for dogs make great objects for this activity.

AGE <i>(Though milestones may vary up to 6 weeks; refer if eyes not straight by 5th mo.)</i>	MILESTONE	IMPORTANCE OF MILESTONE	QUESTIONS TO ASK OR BEHAVIORS TO MONITOR	NEXT STEPS
<p>By 5th month</p>  <p>http://ldaamerica.org/wp-content/uploads/2013/10/fo-ur-infants.jpg</p>	<p>4th Milestone</p> <ul style="list-style-type: none"> Keenly watching hand movements of other children and adults and beginning to copy those hand movements 	<ul style="list-style-type: none"> Keenly observing hand movements of others and starting to copy those hand movements leads to goal-directed reaching and grasping, which begins the process of learning from imitation, and understanding actions and goals of others. 	<ul style="list-style-type: none"> <input type="checkbox"/> Is baby keenly watching hand movements of other children and adults? (If “no”, move to Next Steps.) <input type="checkbox"/> Is baby beginning to copy hand movements of other children and adults? (If “no”, move to Next Steps.) 	<ul style="list-style-type: none"> <input type="checkbox"/> Refer for eye exam to assess all parts of the visual system to determine why baby is not keenly watching and beginning to copy hand movements of other children and adults. <input type="checkbox"/> Refer to Birth to Three Early Intervention program for assistance in helping baby observe and begin to copy hand movements of other children and adults.
<p>By 5th month</p>  <p>https://pbs.twimg.com/media/CLLhTXBUwAAxZcl.jpg</p>	<p>5th Milestone</p> <ul style="list-style-type: none"> Eyes are straight and do not appear to cross or drift 	<ul style="list-style-type: none"> Eyes must be straight for good binocular vision to develop. 	<ul style="list-style-type: none"> <input type="checkbox"/> Are baby’s eyes straight? (If “no”, move to Next Steps.) <input type="checkbox"/> Do baby’s eyes ever appear to cross or drift? (If “yes”, move to Next Steps.) 	<ul style="list-style-type: none"> <input type="checkbox"/> If baby’s eyes appear to turn in or out after age 4 months, immediately refer baby for eye exam to assess all parts of the visual system to determine the cause of eye misalignment.

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<p>During 5th or 6th months</p>  <p>http://images.inmagine.com/400nwm/imagesource/is098u7yx/is098u93r.jpg</p>  <p>http://birthways.org/wp-content/uploads/2011/06/bi_gstock_Babies_Playing_With_Toys_2666238.jpg</p>	<p>6th Milestone</p> <ul style="list-style-type: none"> • Goal-directed hand-arm movements 	<ul style="list-style-type: none"> • Reaching for a desired object leads to goal-directed behavior and shows desire, interest, and curiosity – critical elements for learning. • If baby is not reaching for objects, maybe baby cannot see the objects. • Watching other children play opens a window into understanding another person's activities and goals. 	<ul style="list-style-type: none"> <input type="checkbox"/> Does baby reach for and grasp objects? (If “no”, move to Next Steps.) <input type="checkbox"/> Does baby look at the object when reaching? (If “no”, move to Next Steps.) <input type="checkbox"/> Does baby watch other children playing? (If “no”, move to Next Steps.) 	<ul style="list-style-type: none"> <input type="checkbox"/> Refer for eye exam to assess all parts of the visual system to determine why baby is not reaching. <input type="checkbox"/> Refer to Birth to Three Early Intervention program for assistance in helping baby develop goal-directed hand-arm movements.

AGE <i>(Milestones may vary up to 6 weeks.)</i>	MILESTONE	IMPORTANCE OF MILESTONE	QUESTIONS TO ASK OR BEHAVIORS TO MONITOR	NEXT STEPS
<p>7th, 8th, or 9th months</p>  <p>Image courtesy of Lea Hyvärinen, MD, PhD</p>  <p>http://d236bkdxj385sg.cloudfront.net/wp-content/uploads/2012/07/dad-and-baby.jpg</p>	<p>7th Milestone</p> <ul style="list-style-type: none"> • Recognition of family and/or caregiver faces 	<ul style="list-style-type: none"> • If baby does not recognize family and/or caregiver faces and does not look at, or into, the parent's and/or caregiver's eyes, and focuses instead on the parent's and/or caregiver's hair or forehead, for example, baby may be incorrectly diagnosed as being on the autism spectrum. • If baby wants to be carried constantly, this is red flag. A parent is center of baby's world and baby will cling to parent from fear of losing contact with parent. 	<ul style="list-style-type: none"> <input type="checkbox"/> Does baby recognize family members and/or caregivers and have a welcoming smile before hearing their voices or seeing their smiles? (If "no", move to Next Steps.) <input type="checkbox"/> Does baby recognize difference between familiar faces at home and visiting strangers? (If "no", move to Next Steps.) <input type="checkbox"/> Does baby recognize family members outside the home among groups of people? (If "no", move to Next Steps.) <input type="checkbox"/> Does baby recognize caregiver among several adults in a center-based setting? (If "no", move to Next Steps.) 	<ul style="list-style-type: none"> <input type="checkbox"/> Refer for eye exam to assess all parts of the visual system to determine why baby does not recognize family and/or caregiver faces. <input type="checkbox"/> Refer to pediatric neurologist for assessment of other signs of disorders in brain function and development. <input type="checkbox"/> Refer to Birth to 3 Early Intervention program to support attachment with parent/caregiver. <input type="checkbox"/> To help baby recognize family members/caregivers, encourage family members/caregivers to use something specific for: <ul style="list-style-type: none"> • Clothing - i.e., wearing same colorful blouse/shirt when greeting baby each morning, • Hair - i.e., colorful headband, and • Voice - i.e., same phrase when approaching baby.