18 Vision Development Milestones From Birth to Baby's First Birthday

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About this Tool:

- This document is a vision screening tool for Early Head Start, Parents as Teachers, and other early care and education programs.
- This tool includes vision milestones in order of typical development.
- The 1st column lists the age.
- The 2nd column lists the milestones typically expected to occur for the age.
- The 3rd column lists the questions to ask.
- The 4th column lists Next Steps when a referral is required. It also provides activities that parents and caregivers can do to help with the milestones.
- Because each child develops differently and may meet the vision milestones at different ages, vision milestones may vary up to 6
 weeks; some questions provide ages for rescreening before referring.
 - Although milestones may vary up to 6 weeks, if baby's eyes appear to be misaligned (possible strabismus) by age 5 months, refer immediately for an eye examination.
- When using this tool with children who were born prematurely and have no health challenges, adjust chronological age to the
 corrected age* and use this tool based on corrected age (see above box). Visual development milestones may be delayed if babies
 have health challenges (i.e., genetic syndromes, neurologic and metabolic conditions, etc.). For these children, use vision
 screening results from the baby's primary care provider or eye examination results from the baby's eye care professionals to meet
 your vision screening mandate.

Instructions:

- 1. Visual skills typically develop in a particular order. To determine if the baby has met all vision milestones, begin with the first milestone on Page 2 regardless of baby's age for the first screening. Do not skip to the chronological or corrected age of the baby you are screening. If you use this tool multiple times with a child, and the child did not require a referral, begin the next screening with the milestone matching the child's chronological or corrected age.
- 2. Check the appropriate boxes in the "Questions" column. Some will require rescreening if the vision milestone has not been met.
- 3. Complete the "Questions" column of the table before completing the Pass/Rescreen/Refer Documentation pages beginning on page 10. This tool **and/or** the Pass/Rescreen/Refer Documentation can be scanned into electronic medical records and included in the baby's hard file for record-keeping purposes.
- 4. Use this tool monthly throughout baby's first year to review vision development milestones.

*To calculate "corrected age", subtract the number of weeks born before 40 weeks of gestation from the chronological age. For example, chronological age = 6 months (24 weeks). Child born at 28 weeks gestation. 40 weeks minus 28 weeks = 12 weeks. Chronological age of 24 weeks minus 12 weeks equals 12 weeks (3 months). Corrected age is 3 months. You may find this age calculator helpful:

https://mymonthlycycles.com/premature_baby_age_calculator.j

Child's Name:	DOB	:	Age	e:

AGE (Milestones may vary up to 6 weeks.)	MILESTONE	QUESTIONS	NEXT STEPS
Birth through 1st month Image from BabyCentre: https://www.babycentre.co.uk/l1048954/how-your-baby-learns-to-explore-photos Picture 1 – Baby looks at object 8 to 15 inches away from face.	 Baby begins to focus on lights, faces, and objects 8 to 15 (20.32 – 38.1 cm) inches away from his/her face. Baby begins to follow slowly moving lights, faces, and objects at near. 	 Does baby focus on lights, faces, and objects 8 to 15 inches (20.32 – 38.1 cm) in front of his/her face? Yes (pass). Not Yet (rescreen within 6 weeks). Date for rescreen: If "No" after rescreening, move to Next Steps. Is baby beginning to follow slowly moving lights, faces, and objects with his/her head and eyes? Yes (pass). Not Yet (rescreen within 6 weeks). Date for rescreen: 	 Refer to baby's primary health care provider for further evaluation and to coordinate a referral for an eye examination. Refer to Birth to 3 Early Intervention program. Activities parents and caregivers can do: Hold your baby in front of you, look at your baby, and slowly move your head from side to side. Play together and have fun! Hold a patterned, high-contrast
Image from Zero to Three: https://www.zerotothree.org/res ources/164-play-activities-for- birth-to-12-months Picture 2 – Passing a patterned object within 8 to 15 inches of baby's face.	NEXT MILESTONE DURING AGE 2 ND AND 3 RD MONTHS	☐ If "No" after rescreening, move to Next Steps.	toy within 8 to 15 inches (20.32 – 38.1 cm) of your baby's face. Slowly move the object up and down or side to side. Play together and have fun! • Place a small rattle or colorful, plastic right in your baby's hands and gently shake your baby's hands in front of your baby's face. Play together and have fun!

Child's Name:		DOB:		Age:
Pass/Rescreen/Refer l	Documer	ntation		
Birth through 1 st Month				
1. Does baby focus on lights, faces, and objects 8 to 15 inches (20.32 – 38.1 cm) in front of his/her face?	Screen Dat	е	Rescreer	Date:
Comments/ Observations:	□ Pass	Rescreen	□ Pass	□ Refer health care provider□ Refer El
2. Is baby beginning to follow slowly moving lights, faces, and objects with his/her head and eyes?	Screen Dat	e:	Rescreer	Date:
Comments/ Observations:	□ Pass	Rescreen	□ Pass	□ Refer health care provider □ Refer El

Page

Child's Name:	 DOB	:	Ag	e:

AGE (Milestones may vary	MILESTONE	QUESTIONS	NEXT STEPS
up to 6 weeks.)			
During 2 nd and 3 rd months	3. Baby begins to notice his/her hands.	 3. Is baby aware of his/her hands during the 2nd month? ☐ Yes (pass). 	Refer to baby's pediatric primary health care provider for further evaluation and to coordinate a
2 Months - Begins to smile at people	4. Baby makes eye contact with parent or caregiver.5. Baby follows	 No (refer and move to Next Steps). 4. Does baby look directly at parent's or caregiver's eyes? Yes (pass). Not Yet (rescreen within 6 weeks). 	referral for an eye examination. Refer to Birth to 3 Early Intervention program. Activities parents and caregivers
Image from CDC: https://www.cdc.gov/ncbddd/act early/milestones/photolibrary/2 months.html Picture 5 – Lively visual communication with social	moving lights, faces, people, and objects with both eyes together.	Date for rescreen: If "No" after rescreening, move to Next Steps.	 can do: Look at your baby with his/her face about 8 to 15 inches from your face, wait for your baby to look at your face; and smile,
smile.	6. Baby has a social smile.	 5. Is baby following moving lights, faces, people, and objects with both eyes together? Yes (pass). 	sing, or talk to your baby. Play together and have fun! • Hold a favorite toy, bottle, or not to read and high contract.
Image from Lea Hyvärinen, MD,	IF BABY IS AGE 3 TO 4 MONTHS, ALSO DO THE FOLLOWING MILESTONE	 Not Yet (rescreen within 6 weeks). Date for rescreen: If "No" after rescreening, move to Next Steps. Is baby smiling at his/her parent or caregiver by age 3 months? 	patterned and high-contrast object within 8 to 15 inches (20.32 – 38.1 cm) of your baby's face. Slowly move the object up and down or side to side. Play together and have fun!
PhD http://www.lea- test.fi/index.html?start=en/asses sme/lowvisio/index.html Picture 6 – Baby turns head away from the parent.		☐ Yes (pass). ☐ No (Refer and move to Next Steps.	

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Date: _____

Child's Name:		DOB:	· · · · · · · · · · · · · · · · · · ·	Age:
Pass/Rescreen/Refer	Documen	ıtation		
During 2 nd and 3 rd Months				
3. Is baby aware of his/her hands during the 2 nd month?	Screen Date			
Comments/ Observations:	☐ Pass	☐ Refer health care provider		
		☐ Refer El		
Does baby look directly at parent's or caregiver's eyes?	Screen Date	! е:	Rescreen	Date:
Comments/ Observations:	☐ Pass	☐ Rescreen	☐ Pass	care provider
				☐ Refer EI
5. Is baby following moving lights, faces, people, and objects with both eyes together?	Screen Date	e:	Rescreen	Date:
Comments/ Observations:	□ Pass	Rescreen	□ Pass	☐ Refer health care provider
				☐ Refer EI
6. Is baby smiling at his/her parent or caregiver by age 3 months?	Screen Date	e:		
Comments/ Observations:	☐ Pass	☐ Refer health care provider		
		☐ Refer EI		

Child's Name:	 DOB	:	Age):

AGE (Milestones may vary up to 6 weeks.)	MILESTONE	QUESTIONS	NEXT STEPS
During 3 rd and 4 th months http://www.howwemontessori.com/how-we-montessori/2011/07/grasping-and-in-hand-materials.html Picture 7 – Baby becomes aware of hands. http://www.flynnleitch.com/2017/02/ Picture 8 – Baby explores hands with mouth.	 Baby watches his/her hand movements. Baby reaches for objects or parent's or caregiver's face. Baby grasps and holds objects in his/her hands. Baby brings objects to his/her mouth. Baby moves eyes from person to person or object to object. NEXT MILESTONE AT AGE 5 MONTHS	 7. Does baby watch his/her hands? Yes (pass). Not Yet (rescreen within 6 weeks). Date for rescreen: If "No" after rescreening, move to Next Steps. 8. Does baby reach for objects or parent's or caregiver's face? Yes (pass). Not Yet (rescreen within 6 weeks). Date for rescreen: If "No" after rescreening, move to Next Steps. 9. Does baby grasp and hold an object in his/her hands? Yes (pass). Not Yet (rescreen within 6 weeks). Date for rescreen: If "No" after rescreening, move to Next Steps. 10. Does baby bring objects to his/her mouth by age 4 months? Yes (pass). No (refer and move to Next Steps). 11. Does baby shift his/her eyes from person to person or object to object during age 4 months? Yes (pass). No (refer and move to Next Steps). 	 □ Refer to baby's pediatric primary health care provider for further evaluation and to coordinate a referral for an eye examination. □ Refer to Birth to Three Early Intervention program. □ Activities parents and caregivers can do: With baby's back on a flat surface, gently use baby's elbows to bring hands together at the middle of baby's chest. Play together and have fun! Use age-appropriate baby toys to help baby use his/her hands to explore. Play together and have fun! Hold a toy in one hand toward the right side of baby's face and shake or activate the toy. Repeat with a different toy in the other hand toward the left side of baby face. Alternate between toys, shaking or activating one toy at a time.
Screener's Signature:			Date:

Child's Name:		DOB:		Age:
Pass/Rescreen/Refer	Documer	ntation		
During 3 rd and 4 th Months				
7. Does baby watch his/her hands?	Screen Dat	te:	Rescreen Date:	
Comments/ Observations:	☐ Pass	□ Rescreen	□ Pass	Refer health care provider
				☐ Refer El
8. Does baby reach for objects or parent's or caregiver's face?	Screen Dat	ie:	Rescreen Date:	
Comments/ Observations:	□ Pass	Rescreen	□ Pass	Refer health care provider
O Dear habit many and hald an abiast in his/han hands?	Company Det	<u> </u>	D	Refer El
9. Does baby grasp and hold an object in his/her hands?	Screen Dat	1	Rescreen D	
Comments/ Observations:	☐ Pass	□ Rescreen	□ Pass	☐ Refer health care provider
				□ Refer EI
10. Does baby bring objects to his/her mouth by age 4 months?	Screen Dat	te:		
Comments/ Observations:	□ Pass	Refer health care provider		
11. Does baby shift his/her eyes from person to person or object to	Screen Dat			
object during age 4 months?				
Comments/ Observations:	□ Pass	Refer health care provider		

Child's Name:	 DOB:	Age	e:
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AGE (Refer if eyes not straight by the 5 th mo.)	MILESTONE	QUESTIONS	NEXT STEPS
By 5 th month Image from:	 12. Baby's eyes appear straight. 13. Neither of baby's eyes turn up, down, in, or out for several minutes at a time, either constantly* or intermittently** 	 12. Are baby's eyes straight? Yes (pass). No, (refer and move to Next Steps). 13. Do either of baby's eyes ever appear to constantly or intermittently turn up, down, in, or out beginning at age 5 months? No (pass). Yes, (refer and move to Next Steps). 	 If you think baby's eyes are not straight, or an eye appears to cross or drift outward, after age 4 months, immediately refer to an eye care professional for an eye examination. Refer to Birth to Three Early Intervention program.
Image from: http://britishmuslim- magazine.com/wp-content/ uploads/2016/07/baby.jpg\ Picture 9 – Straight eyes. Image from: http://www.allaboutvision.com/c onditions/strabismus.htm Picture 10 - Inward constant strabismus example.	*Constantly and constant means the misalignment is present all the time and could be up, down, in, or out (see Pictures 9 and 10 on left as examples). **Intermittently and intermittent means an eye turns in, out, up, or down, only for a short time. NEXT MILESTONE AT AGE 6 MONTHS		

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Child's Name:	· · · · · · · · · · · · · · · · · · ·	DOB:	Age:
Pass/Rescreen/Refer I	Documen	tation	
By 5 th Month			
12. Are baby's eyes straight?	Screen Dat	e:	
Comments/ Observations:	□ Pass	☐ Refer eye care provider	
		☐ Refer El	
13. Do either of baby's eyes ever appear to constantly* or intermittently** turn up, down, in, or out beginning at age 5 months?	Screen Dat	e:	
Comments/ Observations:	☐ Pass	☐ Refer eye care provider	
		□ Refer El	

Screener's Signature:

Date:

^{**}Intermittently and intermittent means an eye turns in, out, up, or down, only for a short time.

Child's Name:	 DOB	<u>:</u>	Age):

During 6th and 7th months 14. Baby purposefully reaches for objects. 15. Baby follows objects with both his/her eyes at near (1 foot [30.48 cm]) and far (greater than 6 feet [1.8288 m]). 16. Does baby follows objects with both his/her eyes at near (1 foot [30.48 cm]) and far (greater than 6 feet [1.8288 m]). 17. Does baby follows objects with both eyes at near (1 foot [30.48 cm]) and far (greater than 6 feet [1.8288 m]). 18. Does baby follows objects with both eyes at near (1 foot [30.48 cm]) and far (greater than 6 feet [1.8288 m]). 19. No (refer and move to Next Steps). 19. No (refer and move to Next Steps).	AGE (Milestones may vary	MILESTONE	QUESTIONS	NEXT STEPS
months purposefully reaches for objects. Saby follows objects with both his/her eyes at near (1 foot [30.48 cm]) and far (greater than 6 feet [1.8288 m]). See pass). Soes baby follows objects with both his/her eyes at near (1 foot [30.48 cm]) and far (greater than 6 feet [1.8288 m]). No (refer and move to Next Steps). No (refer and move to Next Steps).		WILLOTONE	QUEUTIONU	NEXT STELLS
	During 6 th and 7 th months http://smartmomcenter.com/when-do-babies-crawl/ Picture 11 – Goal-directed hand arm movement to reach toy. http://www.fisher-price.com/en_US/playtime-guide/6-months/index.html	purposefully reaches for objects. 15. Baby follows objects with both his/her eyes at near (1 foot [30.48 cm]) and far (greater than 6 feet [1.8288 m]). NEXT MILESTONE AT AGE 8	 baby wants? Yes (pass). Not Yet (rescreen within 6 weeks). Date for rescreen: If "No" after rescreening, move to Next Steps. 15. Does baby follows objects with both eyes at near (1 foot [30.48 cm]) and far (greater than 6 feet [182.88]) by age 7 months? Yes (pass). 	health care provider for further evaluation and to coordinate a referral for an eye examination. Refer to Birth to Three Early Intervention program. Activities parents and caregivers can do: Place favorite toy or other object close to, but slightly out of reach, of baby and encourage baby to reach for the toy or object. Give baby the toy/object after he/she reaches for it so he/she can play with the toy or object. Play together
Screener's Signature: Date:	arm movement to reach toy.			Data

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Child's Name:		DOB:		Age:				
								
Pass/Rescreen/Refer I	Pass/Rescreen/Refer Documentation							
During 6th and 7th Months								
14. Does baby purposefully reach for objects baby wants?	Screen Dat	e:	Rescreen	Date:				
Comments/ Observations:	□ Pass	Rescreen	□ Pass	□ Refer health care provider □ Refer El				
15. Does baby follow objects with both eyes at near (1 foot [30.48 cm]) and far (greater than 6 feet [1.8288 m]) by age 7 months?	Screen Dat	e:						
Comments/ Observations:	□ Pass	Refer health care provider						

Child's Name:	DOB	:	Age	e:

AGE (Milestones may vary up to 6 weeks.)	MILESTONE	QUESTIONS	NEXT STEPS
During 8th, 9th, or 10th months Image from: http://www.mirror.co.uk/news/w orld-news/tear-jerking-moment-baby-boy-10015286 Picture 13 – Wearing glasses, baby now recognizes his parent. Image from: https://www.whattoexpect.com/first-year/feeding-baby/best-finger-foods-for-babies/#04 Picture 14 – Baby looks at small	16. Baby recognizes family and/or caregiver faces. 17. Baby looks at small objects, such as cereal or a raisin. NEXT MILESTONE AT AGE 11 MONTHS	16. Does baby recognize family members and/or caregivers and have a welcoming smile before hearing his/her voices or seeing his/her smiles? Yes (pass) Not yet (rescreen at age 9 months) Date for rescreen: Rescreening at age 9 months. Yes (pass) Not yet (rescreen at age 10 months) Date for rescreen: Rescreening at age 10 months. Yes (pass) No (refer and move to Next Steps). 17. Does baby look at small objects, such as cereal or a raisin? Yes (pass) Not yet (rescreen at age 9 months) Date for rescreen: Rescreening at age 9 months. Yes (pass) Not yet (rescreen at age 9 months) Date for rescreen: Rescreening at age 10 months. Yes (pass) Rescreening at age 10 months. Yes (pass) Not yet (rescreen at age 10 months) Date for rescreen:	 □ Refer to baby's pediatric primary health care provider for further evaluation and to coordinate a referral for an eye examination. □ Refer to Birth to 3 Early Intervention program. □ Activities parents and caregivers can do: Wear the same colorful blouse/shirt when greeting baby each morning. Use the same phrase when approaching your baby, such as "Here comes XXX" or "Hi XXX". Say the names of family members. Ask "Where is Mommy?" Give baby time to look and locate Mommy's face. Provide lots of face-to-face opportunities for interacting. Repeating these opportunities will help you baby visually tell the difference between faces and objects. Have your baby look at his/her own face in a mirror. Play Peek-a-Boo.
object.			

Date: _____

Child's Name:		DOB:		Age:	
Pass/Rescreen/Refer	Documen	itation			
During 8th, 9th, or 10th Months					
16. Does baby recognize family members and/or caregivers and have a welcoming smile before hearing his/her voices or seeing his/her smiles?	Screen Dat	te:	Rescreen Date:		
Comments/ Observations:	□ Pass	Rescreen at age 9 months	□ Pass	□ Refer health care provider □ Refer El	
	Screen Dat	te:	9 month Rescreen	Date:	
	□ Pass	Rescreen at age 10 months	□ Pass	□ Refer health care provider □ Refer El	
			10 month Rescreen	Date:	
			☐ Pass	□ Refer health care provider□ Refer El	
17. Does baby look at small objects, such as cereal or a raisin?	Screen Dat	te:	Rescreen	Date:	
Comments/ Observations:	□ Pass	Rescreen at age 9 months	☐ Pass	□ Refer health care provider □ Refer El	
	Screen Dat	te:	9 month Rescreen	Date:	
	☐ Pass	Rescreen at age 10 months	☐ Pass	□ Refer health care provider □ Refer El	
			10 month Rescreen	Date:	
			☐ Pass	□ Refer health care provider □ Refer El	

AGE (Milestones may vary up to 6 weeks.)	MILESTONE	QUESTIONS	NEXT STEPS
During 11 th and 12 th months https://www.ecda.gov.sg/growat beanstalk/Pages/Understanding andlearningabouttheworld_Birth to2years.aspx Picture 15 – Baby points to picture in a book. https://twintalkblog.net/tag/11-month-old-twins/Picture 16 – Baby points to picture in book.	 Use this milestone if baby has been exposed to books: 18.A. Baby uses his/her index finger to point to pictures in a book. MOVE TO NEXT MILESTONE IF BABY IS NOT EXPOSED TO BOOKS 	 18.A. When given a book with pictures, does baby use his/her index finger and point to pictures in the book? □ Yes (pass) □ No (refer and move to Next Steps). 	 □ Refer to baby's pediatric primary health care provider for further evaluation and to coordinate a referral for an eye examination. □ Refer to Birth to 3 Early Intervention program. □ Activities parents and caregivers can do: Look at a book with pictures with baby. Point to simple, high-contrast pictures in an age-appropriate children's book and name the picture. Remove hand. Ask your baby where is X (using same picture)? If your baby points to the same picture, praise baby. If your baby does not point to the same picture, again point to the same picture. Again point to the same picture. Then, gently move baby's finger to the same picture and name picture. Make it fun! If baby does not respond to the book, try a different book. Perhaps baby is not interested in the first book.

Date: _____

Child's Name:		DOB:	Age:
Pass/Rescreen/Refer	Documen	tation	
During 11th and 12th Months – If baby has been exposed to books			
18.A. When given a book with pictures, does baby use his/her index finger and point to pictures in the book?	Screen Dat	re:	
Comments/ Observations:	□ Pass	□ Refer health care provider □ Refer El	

Child's Name:	D	OD. A	.ge:	

AGE (Milestones may vary up to 6 weeks.)	MILESTONE	QUESTIONS	NEXT STEPS
During 11 th and 12 th months Image from: http://chasingcheerios.blogspot.com/2010/09/putting-objects-inlarge-container.html Picture 17 – Baby looking for object in container.	Use this milestone if baby has not been exposed to books: 18. B. Baby looks for object dropped in containers.	 18.B. When an object (such as a toy block) is dropped into a container, does baby look in the container for the object? ☐ Yes (pass) ☐ No (refer and move to Next Steps). 	 □ Refer to baby's pediatric primary health care provider for further evaluation and to coordinate a referral for an eye examination. □ Refer to Birth to 3 Early Intervention. □ Activities parents and caregivers can do: ■ Use a block or favorite toy with a container nearby. Talk with your baby about the block or favorite toy. Drop the block or favorite toy and ask your baby where the X went. ■ If your baby does not look into the container, you look into the container and say "Here is X" and repeat 3 or 4 times. Make it a game.

	DOB:	_ Age:
Documen	tation	
oks		
Screen Dat	e:	
☐ Pass	☐ Refer health care provider	
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	o ks Screen Dat	Occumentation oks Screen Date: Pass Refer health care provider

Expert Contributors:

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