

Motor Milestones by 3 Months

Gross Motor Skills

- -Laying on back:
 - -Kick legs together and alternately
 - -Reach for/ bat at toys held over head in midline with each arm together and alternately
- -Laying on tummy:
 - -Turn head from cheek to cheek
 - -Lift head off of surface using elbows for support
 - -Sometimes rolls from tummy to back
- -In sitting:
 - -Able to hold head upright and in midline briefly with trunk supported (also on an adult's shoulder)
 - -Able to sit with support at the hips with tummy off of legs briefly
- -Briefly support weight through both feet when held in standing position

Fine Motor Skills

- -Open and close hands
- -Grab object placed in palm with tight grip using all fingers
- -Hold object placed in hand for at least 30 seconds
- -Manipulate object in hand (shake a rattle, for example)
- -Bring hands to mouth

Visual-Motor Skills

- -Track a toy from one side to the other and back while laying on back
- -Looks at their own hands
- -Looks at faces intently
- -Extend arms towards a toy held in midline

Atypical Behaviors by the End of 3 Months of Age

- -Arching spine
- -Limited movement in any one arm or leg (or multiple limbs)
- -Does not grasp or release objects
- -Does not perform alternating leg movements
- -Does not push through feet in supported standing
- -Does not follow toys or faces with eyes
- -Does not smile or babble
- -Does not support head well in sitting or when held against an adult
- -Does not bring hands or objects to mouth
- -Holds head to one side with limited ability to turn to the other

Sources

Centers for Disease Control and Prevention (www.cdc.gov)

Toby Long and Kathy Toscano. *Handbook of Pediatric Physical Therapy*. Lipincott Williams & Wilkins: 2002. M. Rhonda Folio and Rebecca R. Fewell. Peabody Developmental Motor Scales Assessment. Pro-Ed: 1998.



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Motor Milestones by 6 Months

Gross Motor Skills

- -Laying on back:
 - -Grab feet with hands
 - -Roll from back to either side
- -Laying on tummy:
 - -Will raise head and shoulders off of floor using forearms when on their tummy
 - -"Swim" on tummy (arms and legs come off the ground in alternating movements)
 - -Push up onto straight arms and lift shoulders and chest off surface briefly

-In sitting:

- -Will pull on your hands to go from from lying on back to sitting
- -Able to keep head in midline and reach for toys when in supported sitting
- -Able to sit with support at hips or by using own hands to prop
- -MAY be able to sit without any assistance for up to 1 minute
- -Weight shifting from one side to the other to reach for toys now seen in both tummy lying and in sitting
- -Supports weight on flat feet and straight legs with assistance for balance

Fine Motor Skills

- -Assist in holding bottle during feeding
- -Begins to transfer objects from one hand to the other
- -Rakes with fingers to collect small objects
- -Mouths toys or other objects

Visual-Motor Skills

- -Bring hands together to grab and then play with toy
- -Extends arms fully to reach for toys held above head in midline when laying on back

Atypical Behaviors by the End of 6 Months of Age

- -Limited movement seen in tummy lying
- -Does not reach for toy in any posture
- -Does not sit erect, even with support
- -Reaches only with one hand
- -Unable to control head when pulled from lying on back to sitting
- -Seems very stiff or very floppy
- -Does not laugh or enjoy being around people
- -Seems overly sensitive to noises
- -Maintains head to one side with limited ability to turn to the other
- -Refuses to cuddle

Sources

Centers for Disease Control and Prevention (www.cdc.gov)



Motor Milestones by 9 Months

Gross Motor Skills

- -Roll from back to stomach; stomach to back
- -Scoot forward on stomach (commando crawl)
- -Go from stomach lying to quadruped (crawl position) without help
- -Able to reach outside of their center of gravity to grab toy without losing balance in sitting
- -Able to manipulate toy with both hands while sitting without support
- -Scoot and pivot on bottom when in sitting
- -Creep on hands and knees at least 5 feet forward
- -Pull to standing on a stable surface from sitting position

Fine Motor Skills

- -Grab toy with thumb and first 2 fingers with visible space between toy and palm
- -Crumples paper with hands
- -Rakes small toys or food with fingers only (no palm)
- -Smother transfer of objects between hands
- -Bangs and shakes objects
- -Reaching is more accurate and coordinated

Visual-Motor Skills

- -Transfer toy from one hand to the other
- -Touch/ poke toy with one finger only
- -Bang two toys together
- -Clap hands together
- -Holds bottle with both hands

Atypical Behaviors by the End of 9 Months of Age

- -Does not attempt movement when on tummy or in quadruped
- -Exclusive W-sitting
- -Does not attempt to bear weight through feet in a standing position
- -Drags one side of body when scooting or crawling
- -Does not notice self in mirror

Sources

Centers for Disease Control and Prevention (www.cdc.gov)



Motor Milestones by 12 Months

Gross Motor Skills

- -Pull to sitting position from tummy lying or quadruped using stationary objects
- -Raise self to sitting from tummy lying or quadruped on arms
- -Bounce on legs by bending knees while holding on with their hands for support
- -Cruise along a support surface (side stepping)
- -Stand independently briefly
- -Take steps in a forward motion using alternating leg movements when supported under arms or at hands
- -Raise self from floor to standing without using a support surface
- -MAY take 3-5 steps without assistance or support

Fine Motor Skills

- -When in sitting, will corral ball rolled towards them with both hands without losing balance
- -Grab small object or food using pad of thumb and index finger
- -Assists in dressing by raising an arm or leg
- -Drinks from a cup with help
- -Feeds self small finger foods
- -Pokes or points with index finger

Visual-Motor Skills

- -Remove untied shoes and socks
- -Transfers small toys or food in / out of a cup or container
- -Opens a book
- -Remove a pellet from a bottle by turning bottle upside down

Atypical Behaviors by the End of 12 Months of Age

- -Unable to stand on flat feet
- -Does not transition in / out of positions without assistance
- -Does not crawl
- -Does not wave or point
- -Seems overly sensitive to clothing and fights while getting dressed or diapered
- -Still unable to be consoled at night time
- -Does not imitate play
- -Experiences a dramatic loss of skills that they once had

Sources

Centers for Disease Control and Prevention (www.cdc.gov)



Motor Milestones by 18 Months

Gross Motor Skills

- -Plays on knees in 'tall kneel' (bottom off of heels)
- -Creeps on hands and knees up and down stairs
- -Lowers self to pick up toy and then returns to standing without losing balance
- -Walking using narrow base of support and alternating arm swinging
- -Walks up and down stairs with support from hand held assistance or rail, stepping up one step at a time
- -May take a few steps backward
- -Attempts to kick a ball with one foot
- -Walks while carrying large object

Fine Motor Skills

- -Throw tennis ball forward using an overhand throw
- -Grab two blocks at once with one hand
- -Holds a crayon with a fisted grip and scribbles
- -Pulls off socks, hat, etc.

Visual-Motor Skills

- -Inserts shapes into shape sorter
- -Drops pellets or small toys into bottle
- -Stacks 2-3 blocks
- -Turns book pages several at a time

Atypical Behaviors by the End of 18 Months of Age

- -Moves via crawling, scooting, or rolling only
- -Exclusive W-sitting
- -No attempts at independent ambulation
- -Avoids playing with children their age
- -Experiences a dramatic loss of skills that they once had
- -Seems very stiff when transitioning in / out of positions

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Toby Long and Kathy Toscano. *Handbook of Pediatric Physical Therapy*. Lipincott Williams & Wilkins: 2002.

M. Rhonda Folio and Rebecca R. Fewell. Peabody Developmental Motor Scales Assessment. Pro-Ed: 1998.

National Network for Child Care-NNCC. Powell, J. and Charles A. Smith, PhD.(1994)



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Motor Milestones by 24 Months

Gross Motor Skills

- -Walks sideways both directions
- -Walks along a narrow line with one foot in front of the other
- -Running with obvious 'flight' phase (both feet leave the ground momentarily)
- -Steps over low barrier without losing balance
- -Kicks a ball with one foot at least 3 feet forward in the general direction of a specific target
- -Climbs onto and off of furniture unassisted
- -Depending on opportunity:
 - -MAY jump up using 2 footed takeoff and landing
 - -MAY jump down from step without help feet may be together or apart
 - -MAY walk up stairs without assistance or rail, placing 1 or both feet on one step at a time

Fine Motor Skills

- -Feeds self with spoon
- -Assists with self-care like washing hand and dressing
- -Throws a ball underhand at least 3 feet forward
- -Opens cabinets and drawers

Visual-Motor Skills

- -Builds a tower of at least 6 blocks
- -Turns pages 1 at a time
- -Imitates vertical lines made on paper

Atypical Behaviors by the End of 24 Months of Age

- -Walks only on toes
- -Does not imitate actions
- -When standing or walking, feet are placed wider or narrower than hips
- -Falls often when walking or running
- -Experiences a dramatic loss of skills that they once had
- -Cannot seem to stand still or hold a position for any length of time (always moving)

Sources

Centers for Disease Control and Prevention (www.cdc.gov)



Motor Milestones from 2-3 Years

Gross Motor Skills

- -Walk on a straight line on toes without heels touching the floor
- -Increased running speed and coordination
- -Jumps forward using a 2-footed takeoff and landing
- -Jumps off tall surfaces (up to 24 inches) with 2-footed takeoff and landing
- -Stands on one foot with hands on hips for several seconds
- -Walks up stairs without assistance or support placing one foot on each step
- -Kicks a stationary ball placed in front of them using opposite arm and leg movement
- -Propels tricycle with legs without assistance
- -Walks on tip toes, but not at ALL times

Fine Motor Skills

- -Catch a ball with 2 hands with elbows bent or elbows straight
- -Throw a ball overhand and underhand at least 7 feet forward
- -Turns doorknobs
- -Holds a crayon with thumb and fingers
- -Manipulates clay or Playdoh

Visual-Motor Skills

- -Removes screw-on lid
- -Builds tower of at least 10 blocks
- -Snips with scissors
- -Imitates horizontal lines and circles on paper
- -Strings at least 4 beads
- -Imitates simple structures made from blocks
- -Completes simple puzzles

Atypical Behaviors by the End of 3 Years of Age

- -Does not take turns
- -Persistent drooling
- -Poor eve contact
- -Limited interest in toys or other children
- -Falls frequently with walking or running
- -Cannot seem to stand still or hold a position for any length of time (always moving)
- -When standing or walking, feet are placed wider or narrower ("scissoring")than hips
- -Experiences a dramatic loss of skills that they once had

Sources

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Toby Long and Kathy Toscano. Handbook of Pediatric Physical Therapy. Lipincott Williams & Wilkins: 2002.

M. Rhonda Folio and Rebecca R. Fewell. Peabody Developmental Motor Scales Assessment. Pro-Ed: 1998.

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Motor Milestones from 3-4 Years

Gross Motor Skills

- -Stands on one foot with hands on hips without swaying for up to 5 seconds
- -Stands on tip toes without swaying for up to 3 seconds
- -Runs with high knee and heel lift, forward trunk lean, and arms bent and alternating across body
- -Walks on balance beam or line
- -Walks down stairs without assistance or support using one foot on each step
- -Jumps over low barriers with 2-footed take-off and landing
- -Walk a line backward
- -Jumps forward several times in succession on one or two feet
- -Hops on one foot
- -Rides a tricycle
- -Accesses most playground equipment independently

Fine Motor Skills

- -Able to hit a target 5 feet away by throwing a ball under and overhand
- -Grabs a writing tool with thumb and pad of index finger, 3 other fingers secured against palm (mature writing position)
- -Able to button and unbutton large buttons
- -Helps dress and undress self

Visual-Motor Skills

- -Cuts paper into 2 pieces
- -Laces a string through a few holes
- -Traces / copies simple lines and shapes
- -Cuts along a line
- -Builds a tower with 9 blocks
- -Catches a bounced ball

Atypical Behaviors by the End of 4 Years of Age

- -Does not jump
- -Cannot grasp crayon between thumb and fingers
- -Resists dressing and toileting
- -Shows no interest in interactive games
- -Unable to copy simple lines and shapes
- -Experiences a dramatic loss of skills that they once had

Sources

Centers for Disease Control and Prevention (www.cdc.gov)



Motor Milestones from 4-5 Years

Gross Motor Skills

- -Imitates 4 sequential movements
- -Stands on one foot without swaying for up to 10 seconds
- -Can perform 3 complete sit ups
- -Can perform a forward roll (somersault)
- -Gallops (same foot leading)
- -Jumps forward multiple times without loss of balance
- -MAY be able to skip (alternating leading foot)
- -Jumps sideways both directions-Walks up and down steps independently with alternating foot pattern

Fine Motor Skills

- -Hits a target at least 5 feet away by bouncing a ball towards target
- -Touches thumb to each finger in succession, 1 at a time
- -Shows signs of hand dominance
- -Uses spoon and fork

Visual-Motor Skills

- -Copies a square and other simple shapes
- -Connects dots on a paper
- -Cuts around simple shapes
- -Folds paper in half accurately
- -Colors between parallel lines

Atypical Behaviors by the End of 5 Years of Age

- -Difficulty with asymmetric body movements (standing on one leg, throwing with one hand)
- -Ambiguous hand preference
- -Acts extremely aggressive or extremely timid
- -Seems aloof around adults or other children
- -Unable to concentrate on any one activity for more than 5 minutes; easily distracted
- -Has trouble eating, sleeping, or toileting independently
- -Experiences a dramatic loss of skills that they once had
- -Avoids playing outside including on playground equipment
- -Avoids barriers such as steps, curbs, etc.

Sources

Centers for Disease Control and Prevention (www.cdc.gov)