

# **Developmental Stages of Children**

## What is Child Development?

Child development refers to how a child becomes able to do more complex things, as they get older. Development is different than growth. Growth only refers to the child getting bigger in size. When we talk about normal development, we are talking about developing skills like:

- **Gross motor:** Using large groups of muscles to sit, stand, walk, run, etc., keeping balance, and changing positions.
- **Fine motor:** Using hands to be able to eat, draw, dress, play, write, and do many other things.
- **Language:** Speaking, using body language and gestures, communicating, and understanding what others say.
- **Cognitive:** Thinking skills: including learning, understanding, problem-solving, reasoning, and remembering.
- **Social:** Interacting with others, having relationships with family, friends, and teachers, cooperating, and responding to the feelings of others.

## What are Developmental Milestones?

Developmental milestones are a set of functional skills or age-specific tasks that most children can do at a certain age range. Pediatricians use milestones to help check how your child is developing. Although each milestone has an age level, the actual age when a normally developing child reaches that milestone can vary quite a bit. Every child is unique!

## **Developmental Milestones by the End of the First Month**

### **Movement**

- Makes jerky, quivering arm thrusts
- Brings hands within range of eyes and mouth
- Moves head from side to side while lying on stomach
- Head flops backward if unsupported
- Keeps hands in tight fists
- Strong reflex movements

### **Visual**

- Focuses 8- to 12-inches away
- Eyes wander and occasionally cross
- Prefers black-and-white or high-contrast patterns
- Prefers the human face to all other patterns

### **Hearing**

- Hearing is fully mature
- Recognizes some sounds
- May turn toward familiar sounds and voices

### **Smell and Touch**

- Prefers sweet smells
- Avoids bitter or acidic smells
- Recognizes the scent of his own mother's breast milk
- Prefers soft to coarse sensations
- Dislikes rough or abrupt handling

## **Developmental Milestones by the End of 3-Months**

### **Movement**

- Raises head and chest when lying on stomach
- Supports upper body with arms when lying on stomach
- Stretches legs out and kicks when lying on stomach or back
- Opens and shuts hands
- Pushes down on his legs when his feet are placed on a firm surface
- Brings hand to mouth
- Takes swipes at dangling objects with hands
- Grasps and shakes hand toys

### **Visual**

- Watches faces intently
- Follows moving objects
- Recognizes familiar objects and people at a distance
- Starts using hands and eyes in coordination

### **Hearing and Speech**

- Smiles at the sound of your voice
- Begins to babble
- Begins to imitate some sounds
- Turns head toward direction of sound

### **Social/Emotional**

- Begins to develop a social smile
- Enjoys playing with other people, and may cry when playing stops
- Becomes more communicative and expressive with face and body
- Imitates some movements and facial expressions

## **Developmental Milestones by the End of 7-Months**

### **Movement**

- Rolls both ways (front to back, back to front)
- Sits with, and then without, support of her hands
- Supports her whole weight on her legs
- Reaches with one hand
- Transfers object from hand to hand
- Uses raking grasp (not pincer)

### **Vision**

- Develops full color vision
- Distance vision matures
- Ability to track moving objects matures

### **Language**

- Responds to own name
- Begins to respond to "no"
- Distinguishes emotions by tone of voice
- Responds to sound by making sounds
- Uses voice to express joy and displeasure
- Babbles chains of consonants

### **Cognitive**

- Finds partially hidden object
- Explores with hands and mouth
- Struggles to get objects that are out of reach

### **Social/Emotional**

- Enjoys social play
- Interested in mirror images
- Responds to other people's expressions of emotion

## Developmental Milestones by the End of 12-Months

### Social and Emotional

- Shy or anxious with strangers
- Cries when mother or father leaves
- Enjoys imitating people in his play
- Shows specific preferences for certain people and toys
- Tests parental responses to his actions during feedings (What do you do when he refuses a food?)
- Tests parental responses to his behavior (What do you do if he cries after you leave the room?)
- May be fearful in some situations
- Prefers mother and/or regular caregiver over all others
- Repeats sounds or gestures for attention
- Finger-feeds himself
- Extends arm or leg to help when being dressed

### Movement

- Reaches sitting position without assistance
- Crawls forward on belly
- Assumes hands-and-knees position
- Creeps on hands and knees
- Gets from sitting to crawling or prone (lying on stomach) position
- Pulls self up to stand
- Walks holding on to furniture
- Stands momentarily without support
- May walk two or three steps without support

## **Language**

- Pays increasing attention to speech
- Responds to simple verbal requests
- Responds to "no"
- Uses simple gestures, such as shaking head for "no"
- Babbles with inflection
- Says "dada" and "mama"
- Uses exclamations, such as "Oh-oh!"
- Tries to imitate words

## **Cognitive**

- Explores objects in many different ways (shaking, banging, throwing, dropping)
- Finds hidden objects easily
- Looks at correct picture when the image is named
- Imitates gestures
- Begins to use objects correctly (drinking from cup, brushing hair, dialing phone, listening to receiver)

# **Developmental Milestones by the End of 2-Years**

## **Movement**

- Walks alone
- Pulls toys behind her while walking
- Carries large toy or several toys while walking
- Begins to run
- Stands on tiptoe
- Kicks a ball
- Climbs onto and down from furniture unassisted
- Walks up and down stairs holding on to support

## **Hand and Finger Skills**

- Scribbles spontaneously
- Turns over container to pour out contents
- Builds tower of four blocks or more
- Might use one hand more frequently than the other

## **Language**

- Points to object or picture when it's named for him
- Recognizes names of familiar people, objects and body parts
- Says several single words (by 15- to 18-months)
- Uses simple phrases (by 18- to 24-months)
- Uses two- to four-word sentences
- Follows simple instructions
- Repeats words overheard in conversation

## **Cognitive**

- Finds objects even when hidden under two or three covers
- Begins to sort by shapes and colors
- Begins make-believe play

## **Social**

- Imitates behavior of others, especially adults and older children
- Increasingly aware of herself as separate from others
- Increasingly enthusiastic about company of other children

## **Emotional**

- Demonstrates increasing independence
- Begins to show defiant behavior
- Episodes of separation anxiety increase toward midyear then fade



## Developmental Milestones by the End of 3-Years

### Movement

- Climbs well
- Walks up and down stairs, alternating feet
- Kicks ball
- Runs easily
- Pedals tricycle
- Bends over easily without falling

### Hand and Finger Skills

- Makes vertical, horizontal and circular strokes with pencil or crayon
- Turns book pages one at a time
- Builds a tower of more than six blocks
- Holds a pencil in writing position
- Screws and unscrews jar lids, nuts and bolts
- Turns rotating handles

### Language

- Follows a two- or three-component command
- Recognizes and identifies almost all common objects and pictures
- Understands most sentences
- Understands physical relationships ("on," "in," "under")
- Uses four- and five-word sentences
- Can say name, age and sex
- Uses pronouns (I, you, me, we, they) and some plurals (cars, dogs, cats)
- Strangers can understand most of her words

### Cognitive

- Makes mechanical toys work
- Matches an object in her hand or room to a picture in a book
- Plays make-believe with dolls, animals and people
- Sorts objects by shape and color
- Completes puzzles with three or four pieces
- Understands concept of "two"

## **Social**

- Imitates adults and playmates
- Spontaneously shows affection for familiar playmates
- Can take turns in games
- Understands concept of "mine" and "his/hers"

## **Emotional**

- Expresses affection openly
- Expresses a wide range of emotions
- By age 3, separates easily from parents
- Objects to major changes in routine

## **Developmental Milestones by the End of 4-Years**

### **Movement**

- Hops and stands on one foot up to five seconds
- Goes upstairs and downstairs without support
- Kicks ball forward
- Throws ball overhand
- Catches bounced ball most of the time
- Moves forward and backward with agility

### **Hand and Finger Skills**

- Copies square shapes
- Draws a person with two to four body parts
- Uses scissors
- Draws circles and squares
- Begins to copy some capital letters

### **Language**

- Understands the concepts of "same" and "different"
- Has mastered some basic rules of grammar
- Speaks in sentences of five to six words
- Speaks clearly enough for strangers to understand
- Tells stories

### **Cognitive**

- Correctly names some colors
- Understands the concept of counting and may know a few numbers
- Approaches problems from a single point of view
- Begins to have a clearer sense of time
- Follows three-part commands
- Recalls parts of a story
- Understands the concept of same/different
- Engages in fantasy play

## **Social**

- Interested in new experiences
- Cooperates with other children
- Plays "Mom" or "Dad"
- Increasingly inventive in fantasy play
- Dresses and undresses
- Negotiates solutions to conflicts
- More independent

## **Emotional**

- Imagines that many unfamiliar images may be "monsters"
- Views self as a whole person involving body, mind and feelings
- Often cannot distinguish between fantasy and reality

## **Developmental Milestones by the End of 5-Years**

### **Movement**

- Stands on one foot for 10 seconds or longer
- Hops, somersaults
- Swings, climbs
- May be able to skip

### **Hand and Finger Skills**

- Copies triangle and other geometric patterns
- Draws person with body
- Prints some letters
- Dresses and undresses without assistance
- Uses fork, spoon and (sometimes) a table knife
- Usually cares for own toilet needs

### **Language**

- Recalls part of a story
- Speaks sentences of more than five words
- Uses future tense
- Tells longer stories
- Says name and address

### **Cognitive Milestones**

- Can count 10 or more objects
- Correctly names at least four colors
- Better understands the concept of time
- Knows about things used every day in the home (money, food, appliances)

### **Social**

- Wants to please friends
- Wants to be like her friends
- More likely to agree to rules
- Likes to sing, dance and act
- Shows more independence and may even visit a next-door neighbor by herself

### **Emotional Milestones**

- Aware of sexuality
- Able to distinguish fantasy from reality
- Sometimes demanding, sometimes eagerly cooperative

## Developmental Aspects of School-Age Childhood

### Social and Emotional Development

- There are signs of growing independence. Children are becoming so "worldly" that they typically test their growing knowledge with back talk and rebellion.
- Common fears include the unknown, failure, death, family problems, and rejection.
- Friends may live in the same neighborhood and are most commonly the same sex.
- Children average five best friends and at least one "enemy", which often change from day to day.
- Children act nurturing and commanding with younger children but follow and depend on older children.
- Children are beginning to see the point of view of others more clearly.
- Children define themselves in terms of their appearance, possessions, and activities.
- There are fewer angry outbursts and more ability to endure frustration while accepting delays in getting things they "want".
- Children often resolve conflict through peer judges who accept or reject their actions.
- Children are self-conscious and feel as if everyone notices even small differences (new haircut, facial hair, a hug in public from a parent).
- Tattling is a common way to attract adult attention in the early years of middle childhood.
- Inner control is being formed and practiced each time decisions are made.
- Around age 6-8, children may still be afraid of monsters and the dark. These are replaced later by fears of school or disaster and confusion over social relationships.
- To win, lead, or to be first is valued. Children try to be the boss and are unhappy if they lose.
- Children often are attached to adults (teacher, club leader, caregiver) other than their parents and will quote their new "hero" or try to please him or her to gain attention.
- Early in middle childhood, "good" and "bad" days are defined as what is approved or disapproved by the family.

- Children's feelings get hurt easily. There are mood swings, and children often do not know how to deal with failure.

### **Physical Development**

- Growth is slower than in preschool years, but steady. Eating may fluctuate with activity level. Some children have growth spurts in the later stages of middle childhood.
- In the later stages of middle childhood, body changes (hips widen, breasts bud, pubic hair appears, testes develop) indicate approaching puberty.
- Children recognize that there are differences between boys and girls.
- Children find difficulty balancing high-energy activities and quiet activities.
- Intense activity may bring tiredness. Children need around 10 hours of sleep each night.
- Muscle coordination and control are uneven and incomplete in the early stages, but children become almost as coordinated as adults by the end of middle childhood.
- Small muscles develop rapidly, making playing musical instruments, hammering, or building things more enjoyable.
- Baby teeth will come out and permanent ones will come in.
- Permanent teeth may come in before the mouth has fully grown, causing dental crowding.
- Eyes reach maturity in both size and function.
- The added strain of schoolwork (smaller print, computers, intense writing) often creates eye-tension and leads some children to request eye examinations.

### **Mental Development**

- Children can begin to think about their own behavior and see consequences for actions. In the early stages of concrete thinking, they can group things that belong together (for instance babies, fathers, mothers, aunts are all family members). As children near adolescence, they master sequencing and ordering, which are needed for math skills.
- Children begin to read and write early in middle childhood and should be skillful in reading and writing by the end of this stage.

- They can think through their actions and trace back events that happened to explain situations, such as why they were late to school.
- Children learn best if they are active while they are learning. For example, children will learn more effectively about traffic safety by moving cars, blocks, and toy figures rather than sitting and listening to an adult explain the rules.
- Six- to 8-year-olds can rarely sit for longer than 15-20 minutes for an activity. Attention span gets longer with age.
- Toward the beginning of middle childhood, children may begin projects but finish few. Allow them to explore new materials. Nearing adolescence, children will focus more on completion.
- Teachers set the conditions for social interactions to occur in schools. Understand that children need to experience various friendships while building esteem.
- Children can talk through problems to solve them. This requires more adult time and more sustained attention by children.
- Children can focus attention and take time to search for needed information.
- They can develop a plan to meet a goal.
- There is greater memory capability because many routines (brushing teeth, tying shoes, bathing, etc.) are automatic now.
- Child begins to build a self-image as a "worker". If encouraged, this is positive in later development of career choices.
- Many children want to find a way to earn money.

### **Moral Development**

Moral development is more difficult to discuss in terms of developmental milestones. Moral development occurs over time through experience. Research implies that if a child knows what is right, he or she will do what is right. Even as adults, we know that there are often gray areas when it comes to making tough decisions about right and wrong. There are a lot of "it depends" responses depending on the particular situation.

Most adults agree that they should act in a caring manner and show others they care about them. People want to come into contact with others who will reinforce them for who they are. It is no different for children. To teach responsible and



caring behaviors, adults must first model caring behaviors with young children as they do with other adults. While modeling this behavior, focus on talking with children. This does not mean talking at children but discussing with them in an open-ended way. Work to create an air of learning and a common search for understanding, empathy, and appreciation. Dialogue can be playful, serious, imaginative, or goal oriented. It can also provide the opportunity to question why. This is the foundation for caring for others.

Next, practice caring for others. Adults need to find ways to increase the capacity to care. Adults generally spend time telling children what to do or teaching facts. There is little time to use the newly developed higher order thinking and to practice caring interactions and deeds.

The last step to complete the cycle of caring is confirmation. Confirmation is encouraging the best in others. A trusted adult who identifies something admirable and encourages the development of that trait can go a long way toward helping children find their place in this world. Love, caring and positive relations play central roles in ethics and moral education.

## **Physical Development**

- It is important to help children feel proud of who they are and what they can do. Avoid stereotyping girls into particular activities and boys into others. Let both genders choose from a range of activities.
- Encourage children to balance their activities between high energy and quiet activity. Children release tension through play. Children may be extremely active when tired. Encourage quiet reading, painting, puzzles, or board games before bedtime.
- Regular dental and physical check-ups are an important part of monitoring a child's growth and development. This allows parents to screen for potential problems. If a child accidentally loses a permanent tooth, finding the tooth and taking it and the child to the dentist may save the permanent tooth.

## **Mental Development**

Rapid mental growth creates many of the positive as well as negative interactions between children and adults during middle childhood. Some of the ways adults can help children continue to develop their thinking skills are:

- Adults can ask "what if..." or "how could we solve this" questions to help children develop problem-solving skills.
- Reading signs, making lists, and counting prices are all exercises to practice sequencing skills.
- Asking children if you can help them think about ways to talk with other children can provide limited guidance as they negotiate social relationships.
- Picking focused times to talk - without distractions - allows adults and children to converse and listen.

## **Reflections**

Each stage in life is a time of growth. Middle childhood is a time to bridge dependence with approaching independence. The time of wonder and spontaneity is fading, replaced by feeling self-conscious and on guard. The new ways children act are ways they are exploring their future potential. Some behaviors will pass, but they must be experienced in order for the child to grow and be ready to face the stage of finding his or her identity during adolescence.

## **Television**

A few cautions about TV: Too little physical activity can affect weight in children. Too many aggressive acts on TV can affect mood and actions, and children can begin to think that what they see on TV is the "norm". Limiting the amount of television watched and monitoring what is watched can help parents assure that the TV that is seen relates to their family's values.

## **Self-Care**

There is no magic age at which a child is ready to be left alone. Parents should consider carefully the child's willingness to be left alone, the child's day-to-day responsibility, and the child's ability to anticipate and avoid unsafe situations.

## **Chores**

Children want to feel useful and have a sense that they are contributing to the family. To help children learn household responsibilities, parents might allow children to choose from a list of chores. Paid chores should be in addition to what is generally expected. For example, brushing teeth, taking a bath, and keeping a room clean may be expected. Drying dishes, putting away folded clothes, or emptying trashcans may be chores that earn allowance and contribute to the family.

Money becomes more important since children now understand how it is valued in our society. Earning an allowance is a two-way agreement; children do agreed upon work with little reminders in exchange for agreed upon money or goods. Charts with pictures to check-off chores help children remember what to do. The older children get, the more capable they are, but remember to choose age-appropriate duties.