

Appendix 1 Child Development Scale (CDS)

7:06	Sands on 1 foot for about 30 seconds.	Plays piano or organ freely	Cleans with a broom	Cleans in cooperation. One uses a broom and others uses a dustpan	Reads hiragana (the Japanese cursive syllabary) books completely	Can do a simple addition
7:00	Bounces a ball under one leg.	Makes a paper plane or a paper crane using origami.	Ties shoelaces.	Anticipates what a friend wants.	Dues not use baby talk.	Is able to tell time.
6:06	Jumps rope unassisted.	Draws a picture using paints and brush.	Wrings out wet towel.	Plays old maid (understands the rules thoroughly).	Reads hiragana (the Japanese cursive syllabary) books.	Plays a card game of concentration.
6:00	Stands on 1 foot for about 10 seconds.	Draws a picture of person with six identifiable parts to the body.	Dresses adequately to go out.	Takes a role in a simple game by self.	Story telling.	Comprehends analogies, such as 'If ice is cold, fire is.'
5:06	On a swing in motion, changes from standing/ sitting position to sitting/ standing* ¹ .	Decides how to make better paper plane.	Dries body after bathing.	Takes change from the cashier.	Can successfully play a word-chain game.	Can understand riddles.
5:00	Stands on one foot for about 5 seconds.	Draws a picture of person with three identifiable parts to the body.	Dresses almost satisfactorily to go out.	Takes a role in a simple game with someone's help.	Repeats short stories.	Understands the feelings of being hungry, tired and cold.

4:08	Skipping.	Makes a paper plane under the guidance of an adult.	Dresses up.	Makes a sand mountain cooperatively with two or more people in the sandbox.	Repeats a simple sentence after adult* ² with two correct answers out of three.	Can differentiate the right from the left.
4:04	Enjoys swing.	Catches a bouncing ball.	Crosses the road according to makes a clear distinction between colors	Makes decisions using the "rock-paper-scissors" method.	Can repeat a four-number sequence* ³ with two correct answer out of three.	Understands the concept of numbers (up to 5).
4:00	Hop on 1 foot 2+ times.	Successfully uses scissors to cut along a line.	Washes body unassisted (not necessarily all parts of body).	Tells adults where to go.	Can produce parents' names successfully.	Understands and appropriately answers all five questions* ⁴
3:09	Can long jump.	Attempts to draw a cross.	Blows nose.	Able to await turn in a group.	Can repeat three simple sentences (as above), with at least two correct answers	Understands the concept of numbers (up to three).
3:06	Rides tricycle.	Catches ball.	Washes and wipes hands.	Borrows or lends a toy.	Can repeat three simple sentences* ⁵ and one correct answer out of three.	Understands the concept of numbers (up to two).
3:03	Forward roll.	Fastens a 0.4 inch sized button successfully.	Washes and wipes face unassisted.	Asks for permission.	Has simple conversations with children of same age.	Understands the meaning of high and low.
3:00	Tries to stand on 1 foot.	Successfully uses scissors to cut paper.	Taking clothes off.	Plays house and family roles.	Can repeat a two-word sequence and do this correctly two-thirds of the time.	Names four or more colors.

2:09	Stands and spins on heel (unnecessary to complete 360 degrees).	Imitates drawing a circle.	Wears shoes.	Tends to take care of younger children.	Can repeat a two-number sequence and two correct answers out of three.	Understands the meaning of long and short.
2:06	Walks up stairs alternate feet.	Imitates writing in a straight line.	Feeds himself with spoon without spilling.	Tells adults about quarrels.	Tells full name.	Understands the meaning of big and small.
2:03	Hopping with both feet.	Using hands, hangs from an iron bar for a few seconds.	Pulls off pants.	Imitates answering the phone.	Shows emotion through words (beautiful, nice, cute, etc.).	Is able to identify the eyes, hair, teeth, tongue, belly button, nails and four correct answers out of six.
2:00	Kicks a ball forward.	Places blocks next to each other.	Informs others of the need to use the toilet.	Plays alone even if parent is not nearby.	Speaks 2 word sentence.	Understand the meaning of 'one more' and 'little bit'.
1:09	Walks stairs 2 feet at a time.	Draws circles repeatedly.	Drinks liquid through a straw.	Holds hands with friends.	Can identify three objects by name in a picture book.	Is able to identify eyes, mouth, ears, hands, foot, stomach and four correct answers out of six.
1:06	Runs.	Pours water from one cup to another without spilling.	Tries to spread legs to allow adult to easily dress with pants.	Asks for help.	Can identify one object by name in a picture book.	Asks adult to read for child.
1:04	Walks with shoes.	Builds a two-block tower.	Tries to wipe lips.	Can prepare simple meals, such as putting together cold cereal and milk.	Says three words.	Can follow simple commands in succession.

1:02	Takes 2-3 steps without support.	Takes out a cube from a cup.	Peels candy wrappers.	Repeats actions that attract attention and cause laughter.	2 words with meaning.	Understands simple verbal commands (same as above), with three correct answers out of three.
1:00	Stands up from sitting position without support.	Scrawls on paper.	feeds himself with spoon	When parents leave, tries to follow.	Imitates definite speech sounds.	Understands simple verbal commands (same as above), with one correct answers out of
0:11	Cruises around furniture.	Pushes a toy car.	Drinks from cup without spilling.	Strager anxiety.	Begins to imitate sounds.	Reacts to greetings by waving hands.
0:10	Pulls self to standing position.	Screws lid on and off.	Expresses feelings without crying.	Imitates simple acts and noises.	Produces vowel sounds and actively chained syllables (baba, dada, kaka).	Responds to word 'no'.
0:09	Holding onto furniture.	Beats a drum purposefully.	Brings a cup to the mouth with both hands.	Expresses displeasure when object is taken away.	Bisyllables.	Recognizes the difference between a familiar voice and a stranger's voice.
0:08	sits without support	Uses thumb and index finger in pincer grasp.	Dislikes having face wiped.	Smiles or talks at images in the mirror.	Monosyllables.	Locates voices by turning from head to side and looking in the same direction.
0:07	Lays on tummy and pivots turn to left and right	Transfers objects from one hand to the other.	Feeds from cup.	Recognizes the difference between friendly and angry expressions.	Vocalizes to toys.	Understands parent's feeling from the tone.

0:06	Rolls over	Able to grasp objects voluntarily.	Biscuits to mouth(Mouthing).	Reacts at image of self in mirror.	Vocalizes in response to familiar voices.	Smiles when finds a person.
0:05	Rolls over from side to prone	Shakes rattle placed in hand.	Shows excitement with entire body squeals, or breathes heavily in reaction to toys.	Social smile.	Coos.	Recognizes the difference between the mother's and others' voices.
0:04	Head and neck control.	Clenches hand around rattle.	Feeds with spoon.	Laughs when tickled.	Laughs aloud.	Tries to locate voices by turning head to side.
0:03	Holds head up well when lifted.	Tries to grasp items that touch cheeks.	Shows displeasure when head (face) is covered.	Turns head towards source.	Vocalizes, other than crying.	Becomes quiet when hears a voice.
0:02	Holds chin up.	Sucks fingers.	Evidences satiation afterfeeding ^{*7} .	Fixates at faces.	Cooing.	Visually searches to locate voices.
0:01	Can turn his/her head side to side while lying down.	Grabs when contact is made with fingers.	Turns heads toward the breast or feeding bottle when hungry.	Stops crying when held.	Cries loudly.	Responds to sounds.
Age	Gross motor development	Fine motor development	Social competence development	Communication development	Vocabulary development	Intelligence development
	Motor development		Social development		Vocabulary development	

*¹ If child afraid to do so, please mark 'v'

*² 'Two children are playing with swings.'

'A big moon came out above the mountain.'

'I went shopping with mama yesterday.'

*³ '5-2-4-9' '6-8-3-5' '7-3-2-8'

*⁴ Q1: If you want to read, what do you need? (Answer: book, etc.)

Q2: If you want to write, what do you need? (Answer: pencil, etc.)

Q3: If you want to know the time, what do you need? (Answer: clock, etc.)

Q4: If you want to sit, what do you need? (Answer: chair, etc.)

O5: If it's dark. what do you need? (Answer: light. etc.)

*⁵'Flowers come out.' 'A plane flies.' 'I sing well.'

*⁶'5-8' '6-2' '3-9'

*⁷spits out nipple, turns face away.

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