

Developmental Milestones: Cognitive/Mathematics

Child groups objects using one or more attribute (similarities/differences, size/shape, colors, etc.)

These observations involve the following developmental skills:

- Sorting & classifying
- Thinking, reasoning & problem-solving
- Language & communication
- Visual discrimination
- Fine motor ability

Developmental Milestones: Cognitive/Mathematics

Child identifies and reproduces patterns

These observations involve the following developmental skills:

- Visual discrimination
- Recognizes simple linear patterns
- Mathematical thinking & problem solving
- Fine motor (using manipulative items)
- Spatial awareness

Developmental Milestones: Cognitive/Mathematics

Child is able to rote count

These observations involve the following developmental skills:

- Understanding of numeracy & number names
- Memorization
- Self-confidence
- Mathematical sequencing

Developmental Milestones: Cognitive/Mathematics

Child recognizes numbers

These observations involve the following developmental skills:

- Number sense
- Memorization
- Visual mathematic discrimination
- Self-confidence

Developmental Milestones: Cognitive/Mathematics

Child can rationally count objects

These observations involve the following developmental skills:

- Number equivalency
- Mastery of rote counting
- One to one correspondence
- Early concepts of mathematics/addition

Developmental Milestones: Cognitive/Mathematics

Child demonstrates ability to make one-to-one correspondence

These observations involve the following developmental skills:

- Number sense
- Comparison
- Understanding of quantity & equivalence
- Association of number to an object
- Rote counting
- Problem-solving

Developmental Milestones: Cognitive/Mathematics

Child verbally identifies (without counting) the number of objects

These observations involve the following developmental skills:

- Self-confidence
- Visual memory
- Spatial awareness
- Mental mathematic strategies
- Thinking, reasoning & problem-solving

Developmental Milestones: Cognitive/Mathematics

Child uses informal and formal strategies to solve word problems

These observations involve the following developmental skills:

- Number sense
- Simple arithmetic
- Thinking, reasoning, & problem solving
- Self-confidence
- Fine motor (if using manipulative items)

Developmental Milestones: Cognitive/Mathematics

Child knows meanings of mathematical and ordinal terms

These observations involve the following developmental skills:

- Sorting & classifying
- Thinking, reasoning & problem-solving
- Language & communication
- Visual discrimination
- Uses measurement terms

Developmental Milestones: Cognitive/Mathematics

Child develops an understanding of time in the context of daily routines

These observations involve the following developmental skills:

- Recalling information; memorization
- Sequencing; patterning
- Receptive & expressive language
- Uses vocabulary related to time & chronology
- Self-confidence

Developmental Milestones: Cognitive/Mathematics

Child knows meanings of positional terms (under, over, above, below, etc.)

These observations involve the following developmental skills:

- Thinking, reasoning & problem-solving
- Language & communication
- Visual discrimination
- Spatial awareness

Developmental Milestones: Cognitive/Mathematics

Child demonstrates ability to help create and read classroom graphs

These observations involve the following developmental skills:

- Sorting, classifying, & categorizing
- Thinking, reasoning & problem-solving
- Language & communication
- Visual discrimination
- Knowledge of mathematical terms
- Number sense; rote counting

Developmental Milestones: Cognitive/Mathematics

Child identifies and describes shapes

These observations involve the following developmental skills:

- Emergent geometry
- Spatial awareness
- Mathematic vocabulary
- Discrimination of attributes