

Cognitive Development: Science (CD-SC)

0-12 Months

Strand: Scientific Skills and Methods

Standard CD-SC1: The child will demonstrate scientific inquiry skills.

CD-SC1.0a	Observes and explores objects using all senses
CD-SC1.0b	Explores objects and their properties
CD-SC1.0c	Responds to what they see, hear, taste, and smell

Strand: Earth and Space

Standard CD-SC2: The child will demonstrate knowledge related to the dynamic properties of earth and sky.

CD-SC2.0a	Touches water with adult support and supervision
CD-SC2.0b	Touches sand and mud with adult support and supervision
CD-SC2.0c	Observes the sun, clouds and transition from day to night with adult support
CD-SC2.0d	Observes different types of weather

Strand: Living Things

Standard CD-SC3: The child will demonstrate knowledge of living things and their environments.

CD-SC3.0a	Shows curiosity about people, plants, and animals
CD-SC3.0b	Notices and reacts to living things differently than objects
CD-SC3.0c	Discovers body parts

Strand: Physical Science

Standard CD-SC4: The child will demonstrate knowledge related to physical science.

CD-SC4.0a	Demonstrates ability to move objects
CD-SC4.0b	Observes and responds to movement of objects

Strand: Interaction with Environment

Standard CD-SC5: The child will demonstrate an awareness of and care for their environment.

CD-SC5.0a	Identifies familiar people and objects in their environment
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Cognitive Development: Science (CD-SC)

12-24 Months

Strand: Scientific Skills and Methods

Standard CD-SC1: The child will demonstrate scientific inquiry skills.

CD-SC1.1a	Observes and explores the nature of sensory materials
CD-SC1.1b	Attempts to use objects as tools to explore
CD-SC1.1c	Uses sounds and simple words to describe things in the environment

Strand: Earth and Space

Standard CD-SC2: The child will demonstrate knowledge related to the dynamic properties of earth and sky.

CD-SC2.1a	Engages in structured play with water
CD-SC2.1b	Engages in structured play with sand, soil, and mud activities
CD-SC2.1c	Identifies the objects in the sky and uses basic vocabulary to describe day and night
CD-SC2.1d	Uses emerging vocabulary to describe basic weather

Strand: Living Things

Standard CD-SC3: The child will demonstrate knowledge of living things and their environments.

CD-SC3.1a	Interacts with plants and animals
CD-SC3.1b	Explores characteristics of living things
CD-SC3.1c	Names basic body parts

Strand: Physical Science

Standard CD-SC4: The child will demonstrate knowledge related to physical science.

CD-SC4.1a	Demonstrates ability to push and pull objects
CD-SC4.1b	Observes objects that move at different speeds
CD-SC4.1c	Shows interest and curiosity about objects in their immediate environment. Explores solids and liquids
CD-SC4.1d	Plays with and explores different toys and objects

Strand: Interaction with Environment

Standard CD-SC5: The child will demonstrate an awareness of and care for their environment.

CD-SC5.1a	Identifies familiar people and living things in their environment
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Cognitive Development: Science (CD-SC)

24-36 Months

Strand: Scientific Skills and Methods

Standard CD-SC1: The child will demonstrate scientific inquiry skills.

CD-SC1.2a	Uses senses to observe and experience objects and environment with adult guidance
CD-SC1.2b	Uses simple tools as props through play
CD-SC1.2c	Observes and discusses objects and events in the environment

Strand: Earth and Space

Standard CD-SC2: The child will demonstrate knowledge related to the dynamic properties of earth and sky.

CD-SC2.2a	Explores and investigates the properties of water
CD-SC2.2b	Asks questions about the properties of sand, soil, and mud
CD-SC2.2c	Describes the objects in the sky during daytime and nighttime by drawing and/or naming
CD-SC2.2d	Observes and discusses weather

Strand: Living Things

Standard CD-SC3: The child will demonstrate knowledge of living things and their environments.

CD-SC3.2a	Investigates plants and animals, and how they grow and change
CD-SC3.2b	Explores a variety of living and non-living objects
CD-SC3.2c	Identifies more complex body parts

Strand: Physical Science

Standard CD-SC4: The child will demonstrate knowledge related to physical science.

CD-SC4.2a	Explores motions to play with toys with teacher support
CD-SC4.2b	Uses basic words for speed of motion
CD-SC4.2c	Begins to use words to describe physical properties and states of matter of objects
CD-SC4.2d	Uses complex motions to play with toys that are simple machines

Strand: Interaction with Environment

Standard CD-SC5: The child will demonstrate an awareness of and care for their environment.

CD-SC5.2a	With assistance, participates in activities to take care of the environment
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Cognitive Development: Science (CD-SC)

36-48 Months

Strand: Scientific Skills and Methods

Standard CD-SC1: The child will demonstrate scientific inquiry skills.

CD-SC1.3a	Uses senses to observe, classify, and learn about objects and environment
CD-SC1.3b	Uses simple tools correctly to experiment, observe, and increase understanding
CD-SC1.3c	Records observations through drawings or by dictating ideas to an adult to capture
CD-SC1.3d	Participates in simple experiments and discusses scientific properties

Strand: Earth and Space

Standard CD-SC2: The child will demonstrate knowledge related to the dynamic properties of earth and sky.

CD-SC2.3a	Investigates and asks questions about the properties of water using adult- and child-directed activities
CD-SC2.3b	Investigates properties of rocks, soil, sand, and mud using adult- and child-directed activities
CD-SC2.3c	Asks questions/shows curiosity about objects in the sky and describes appropriate daytime and nighttime activities
CD-SC2.3d	Observes and discusses weather changes from day to day

Strand: Living Things

Standard CD-SC3: The child will demonstrate knowledge of living things and their environments.

CD-SC3.3a	Observes and explores a variety of animals and plants, and their environments and life cycles
CD-SC3.3b	Identifies the physical properties of some living and non-living things
CD-SC3.3c	Identifies and describes the functions of a few body parts

Strand: Physical Science

Standard CD-SC4: The child will demonstrate knowledge related to physical science.

CD-SC4.3a	Independently investigates objects and toys that require positioning and movement
CD-SC4.3b	Investigates different types or speeds of motion
CD-SC4.3c	Explores and identifies physical properties and states of matter of common classroom objects
CD-SC4.3d	Uses classroom objects that function as simple machines
CD-SC4.3e	Begins to explore the uses of technology

Strand: Interaction with Environment

Standard CD-SC5: The child will demonstrate an awareness of and care for their environment.

CD-SC5.3a	Participates in efforts to take care of the environment
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Cognitive Development: Science (CD-SC)

48-60 Months

Strand: Scientific Skills and Methods

Standard CD-SC1: The child will demonstrate scientific inquiry skills.

CD-SC1.4a	Uses senses to observe, classify, and learn about objects and environment
CD-SC1.4b	Uses simple tools correctly to experiment, observe, and increase understanding
CD-SC1.4c	Records observations through dictating to an adult and drawing pictures or using other forms of writing
CD-SC1.4d	Experiments, compares, and formulates hypotheses related to scientific properties

Strand: Earth and Space

Standard CD-SC2: The child will demonstrate knowledge related to the dynamic properties of earth and sky.

CD-SC2.4a	Describes properties of water, including changes to the states of water
CD-SC2.4b	Explores and begins to describe properties of rocks, soil, sand, and mud
CD-SC2.4c	Makes simple observations of the characteristics, movement, and seasonal changes of sun, moon, stars, and clouds. Compares the daytime/nighttime cycle
CD-SC2.4d	Using appropriate vocabulary to discuss climate and changes in the weather

Strand: Living Things

Standard CD-SC3: The child will demonstrate knowledge of living things and their environments.

CD-SC3.4a	Observes, explores, and describes a variety of animals and plants - describes their basic needs and life cycles of living things
CD-SC3.4b	Discriminates between living and non-living things
CD-SC3.4c	Identifies and describes the functions of many body parts

Strand: Physical Science

Standard CD-SC4: The child will demonstrate knowledge related to physical science.

CD-SC4.4a	Explores and describes position and movement of objects and toys
CD-SC4.4b	Investigates and describes different types or speeds of motion
CD-SC4.4c	Describes materials by their physical properties and states of matter
CD-SC4.4d	Uses classroom objects to function as simple machines to enhance child directed play
CD-SC4.4e	Explores the uses of technology and understands its role in the environment

Strand: Interaction with Environment

Standard CD-SC5: The child will demonstrate an awareness of and care for their environment.

CD-SC5.4a	Understands that people have an impact on the environment and participates in efforts to take care of the environment
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