

Science
Grade-Level Expectations: Prekindergarten

Science as Inquiry

The Abilities Necessary to Do Scientific Inquiry

1. Ask questions about objects and events in the environment (e.g., plants, rocks, storms) (PK-CS-I1) (SI-E-A1)
2. Pose questions that can be answered by using students' own observations and scientific knowledge (PK-CS-I1) (SI-E-A1)
3. Use the five senses to describe observations (PK-CS-P3) (SI-E-A3)
4. Select and use developmentally appropriate equipment and tools and units of measurement to observe and collect data (PK-CS-I4) (SI-E-A4)
5. Express data in a variety of ways by constructing illustrations, graphs, charts, tables, concept maps, and oral and written explanations as appropriate (PK-CS-I5) (SI-E-A5) (SI-E-B4)
6. Use a variety of appropriate formats to describe procedures and to express ideas about demonstrations or experiments (e.g., drawings, journals, reports, presentations, exhibitions, portfolios) (PK-CS-I5) (SI-E-A6)
7. Identify and use appropriate safety procedures and equipment when conducting investigations (e.g., gloves, goggles, hair ties) (PK-CS-I4) (SI-E-A7)

Understanding Scientific Inquiry

8. Recognize that a variety of tools can be used to examine objects at different degrees of magnification (e.g., hand lens, microscope) (PK-CS-I4) (SI-E-B3)

Physical Science

Properties of Objects and Materials

9. Sort objects using one characteristic (PK-CS-P2) (PS-E-A1)
10. Determine whether objects float or sink through investigations (PK-CS-P1) (PS-E-A1)
11. Describe properties of materials by using observations made with the aid of equipment such as magnets, magnifying glasses, pan balances, and mirrors (PK-CS-P4) (PS-E-A2)
12. Determine whether one object weighs more or less than another by using a pan balance (PK-CS-I4) (PS-E-A2)
13. Compare the properties of different solids and liquids through observation (PK-CS-P1) (PS-E-A4)
14. Identify components of simple mixtures (e.g., salt/water, rice/beans, iron filings/sand) (PK-CS-P1) (PS-E-A5)

Position and Motion of Objects

15. Demonstrate motion by using students' own bodies (PK-CS-P3) (PS-E-B3)
16. Explore the motion of objects by using balls, toy cars, or spinning tops (PK-CS-I2) (PS-E-B3)

Forms of Energy

17. Identify different sounds as *soft* or *loud* (PK-CS-P3) (PS-E-C1)
18. Identify selected substances as *hot* or *cold* (PK-CS-P2) (PS-E-C3)

Life Science

Characteristics of Organisms

19. Identify parts of the body and how they move (PK-CS-L1) (LS-E-A3)

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- 20. Give examples of different kinds of plants and different kinds of animals (PK-CS-L1) (LS-E-A4)
- 21. Distinguish food items from nonfood items (PK-CS-L1) (LS-E-A6)

Life Cycles of Organisms

- 22. Learn about animals and plants through nonfiction literature (PK-CS-L1) (LS-E-B1)
- 23. Observe and care for pets and plants (PK-CS-L1) (LS-E-B1)

Organisms and Their Environments

- 24. Describe plants and animals in the schoolyard or home environments (PK-CS-L1) (LS-E-C1)

Earth and Space Science

Properties of Earth Materials

- 25. Explore and describe various properties of rocks, minerals, and soils (PK-CS-L2) (ESS-E-A1)
- 26. Describe the weather and its daily changes (PK-CS-ES2) (ESS-E-A4)
- 27. Describe different types of weather students have experienced and give examples of how daily activities and appropriate attire are affected by weather conditions (PK-CS-ES2) (ESS-E-A4)

Objects in the Sky

- 28. Learn about objects in the sky through nonfiction literature (PK-CS-ES3) (ESS-E-B1)