Connecticut Science

Grade K

Adopted 2010

Properties of Matter

1. **Objects have properties that can be observed and used to describe similarities and differences.** K.1
    1. Match each of the five senses with its associated body part and the kind of information it perceives.
    2. Make scientific observations using the five senses, and distinguish between an object's observable properties and its name or its uses.
    3. Classify organisms or objects by one and two observable properties and explain the rule used for sorting (e.g., size, color, shape, texture or flexibility).
    4. Use simple tools and nonstandard units to estimate or predict properties such as size, heaviness, magnetic attraction and float/sink.
    5. Describe properties of materials such as wood, plastic, metal, cloth or paper and sort objects by the material from which they are made.
    6. Count, order and sort objects by their observable properties.

Heredity and Evolution

2. **Many different kinds of living things inhabit the Earth.** K.2
    1. Observe and describe differences between living and nonliving things in terms of growth, offspring and need for energy from "food."
    2. Sort and count living and nonliving things in the classroom, the schoolyard and in pictures.
    3. Use nonstandard measures to estimate and compare the height, length or weight of different kinds of plants and animals.
    4. Observe and write, speak or draw about similarities and differences between plants and animals.
    5. Match pictures or models of adults with their offspring (animals and plants).
    6. Recognize varied individuals as examples of the same kind of living thing (e.g., different color rabbits are all rabbits; different breeds of dogs are all dogs).

Energy in the Earth's Systems

3. **Weather conditions vary daily and seasonally.** K.3
    1. Use the senses to observe daily weather conditions and record data systematically using organizers such as tables, charts, picture graphs or calendars.

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2. Analyze weather data collected over time (during the day, from day to day, and from season to season) to identify patterns and make comparisons and predictions.
3. Observe, compare and contrast cloud shapes, sizes and colors, and relate the appearance of clouds to fair weather or precipitation.
4. Write, speak or draw ways that weather influences humans, other animals and plants.
5. Make judgments about appropriate clothing and activities based on weather conditions.

Science and Technology in Society

4. **Some objects are natural, while others have been designed and made by people to improve the quality of life.
 This content standard is an application of the concepts in content standard K.1 and should be integrated into the same unit.** K.4
    1. Conduct simple tests to compare the properties of different materials and their usefulness for making roofs, windows, walls or floors (e.g., waterproof, transparent, strong).
    2. Seek information in books, magazines and pictures that describes materials used to build shelters by people in different regions of the world.
    3. Compare and contrast the materials used by humans and animals to build shelters.