

# Dynamic Curriculum Science

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Jefferson County Schools

Challenging Individuals to  
Achieve Excellence  
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## Tennessee Science Standards Kindergarten Science

### Inquiry

**GLE 0007.Inq.1** Observe the world of familiar objects using the senses and tools.

**GLE 0007.Inq.2** Ask questions, make logical predictions, plan investigations, and represent data. **GLE 0007.Inq.3** Explain the data from an investigation.

**0007.Inq.1** Use senses and simple tools to make observations.

**0007.Inq.2** Communicate interest in simple phenomena and plan for simple investigations. **0007.Inq.3** Communicate understanding of simple data using age-appropriate vocabulary. **0007.Inq.4** Collect, discuss, and communicate findings from a variety of investigations.

### Technology & Engineering

**GLE 0007.T/E.K-2.1** Recognize that both natural materials and human-made tools have specific characteristics that determine their use.

**NewGLE 0007.T/E.2** Apply engineering design and creative thinking to solve practical problems.

**0007.T/E.1** Explain how simple tools are used to extend the senses, make life easier, and solve everyday problems.

**New 0007.T/E.2** Invent designs for simple products.

**0007.T/E.3** Use tools to measure materials and construct simple products.

## **Life Science Standard 1 –Cells**

**GLE 0007.1.1** Recognize that many things are made of parts

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**0007.1.1** Use puzzles to determine that there are many parts that make up a whole.

**0007.1.2** Use building blocks to create a whole from the parts.

**New 0007.1.3** Take apart an object and describe how the parts work together.

## **Standard 2 –Interdependence**

**GLE 0007.2.1** Recognize that some things are living and some are not.

**GLE 0007.2.2** Know that people interact with their environment through their senses.

**0007.2.1** Categorize objects or images of objects as living or non-living according to their characteristics.

**0007.2.2** Use the senses to investigate and describe an object.

## **Standard 3 -Flow of Matter and Energy**

**NewGLE 0007.3.1** Recognize that living things require water, food, and air.

**0007.3.1** Observe plants and animals and make records of their similarities and differences. **0007.3.2** Record information about the care, feeding, and maintenance of a living thing.

## **NewStandard 4-Heredity**

**GLE 0007.4.1** Observe how plants and animals change as they grow.

**GLE 0007.4.2** Observe that offspring resemble their parents

**0007.4.1** Observe a plant to identify how it changes as it grows from a seed to the adult plant and record data using non-standard measurement devices.

**0007.4.2** Match pictures of seedlings to adult plants and a juvenile to the adult animal.

## **Standard 5 -Biodiversity and Change**

**GLE 0007.5.1** Compare the basic features of plants and animals.

**0007.5.1** Use a variety of representations to describe similarities and differences among plants and animals.

**0007.5.2** Create a mural of an ecosystem and compare the characteristics of animals and plants within that environment.

**0007.5.3** Match pictures of animal and plant characteristics needed for survival to appropriate environments.

## **Earth and Space Science**

### **Standard 6 -The Universe**

**GLE 0007.6.1** Know the different objects that are visible in the day and night sky.


**0007.6.1** Create a Venn diagram to compare the objects that can be seen in the day and night sky.

**0007.6.2** Observe, discuss, and draw objects found in the day and night sky.

### **Standard 7 – The Earth**

**GLE 0007.7.1** Identify non-living materials found on the surface of the earth.

**GLE 0007.7.2** Recognize that some objects are manmade and that some occur naturally

**New**  **0007.7.1** Identify non-living materials found on the school site and discuss how these materials are similar and

different.

**0007.7.2** Investigate and compare a variety of non-living materials using simple tools.

**0007.7.3** Observe familiar environments and make lists of natural and manmade objects.

## **Standard 8 -The Atmosphere**

**GLE 0007.8.2** Collect daily weather data at different times of the year.

**0007.8.1** Collect, compare, and record daily weather data during different seasons.

**0007.8.2** Infer the relationship between temperature and seasonal change by maintaining a paper chain on which dates are recorded and temperature described according to different colors.

## **Physical Science**

### **Standard 9 –Matter**

**GLE 0007.9.1** Describe an object by its observable properties.

**GLE 0007.9.2** Identify objects and materials as solids or liquids

**0007.9.1** Observe, identify, and compare the properties of various objects such as color, shape, and size.

**New 0007.9.2** Observe, discuss, and compare characteristics of various solids and liquids.

### **Standard 10 –Energy**

**GLE 0007.10.1** Identify the sun as the source of heat and light.

**NewGLE 0007.10.2** Investigate the effect of the sun on a variety of materials.

**0007.10.1** Place a thermometer in a sunny window and one in a shady area of the classroom and record the temperatures over time. Compare, discuss, and record any temperature differences.

**0007.10.2** Investigate the temperature differences in various locations around the school. Discuss and record the results.

**0007.10.3** Place a thermometer under pieces of different colored paper on a sunny window. Compare results and discuss

possible causes.

## **Standard 11 –Motion**

**GLE 0007.11.1** Explore different ways that objects move.

**0007.11.1** Use a variety of objects to demonstrate different types of movement. (e.g., straight line/zigzag, backwards/forward, side to side, in circles, fast/slow).

## **Standard 12 -Forces in Nature**

None for this grade level

### **Jefferson County Schools**

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