

# Course Syllabus

## Science, TN: Kindergarten

Jefferson County Schools Curriculum, Final  
Jefferson County Schools

The Terra Nova Multiple Assessments Battery for Science "measures knowledge of key concepts and facility with science process skills. By applying scientific concepts to objects and situations that are familiar to them, students draw connections between what they learn in the classroom and what they find in their own lives. Engaging graphics, photographs, and page designs typify science instructional materials and invite students to participate fully in the test.

The test covers the traditional core areas of science - inquiry, physical science, life science, Earth and space sciences - and adds science and technology, science in personal and social perspectives, and the history and nature of science, as suggested in the National Science Education Standards. Implicit in many questions is the measurement of higher-order thinking skills - the student's ability to analyze, infer, synthesize, and evaluate."

The Tennessee Science Curriculum Standards provide standards, performance indicators, and accomplishments for students in science.

The Tennessee Science Curriculum Standards provide standards, performance indicators, and accomplishments for students in kindergarten.

### Earth and Space Science

The Earth and Space Science unit addresses the composition, structure, exploration, and history of the earth and space. Topics include plate tectonics, the atmosphere, geological cycles and processes, weather, climate, the solar system, and the universe.

The Earth and Space Science unit addresses the composition, structure, exploration, and history of the earth and space. Topics include plate tectonics, the atmosphere, geological cycles and processes, weather, climate, the solar system, and the universe.

- The learner will be able to (IMPORTANT) identify a variety of earth materials (e.g., rocks, pebbles, sand) and recognize that a variety of earth materials exist which have properties that can be measured and observed.

- The learner will be able to (IMPORTANT) observe that earth materials can be recycled or conserved.
- The learner will be able to (IMPORTANT) sort pictures as to whether they depict day or night.
- The learner will be able to (IMPORTANT) identify that the sun provides a main source of heat and light for the earth.
- The learner will be able to (IMPORTANT) identify that different objects appear in the sky during the day and at night and identify objects appearing in the daytime and nighttime sky.
- The learner will be able to (IMPORTANT) recognize daily and seasonal changes in weather and identify some of these changes (e.g., hot, cool, sunny, snowy, rainy).
- The learner will be able to (IMPORTANT) relate the clothing people wear to different types of weather.
- The learner will be able to (IMPORTANT) recognize that temperature, wind conditions, and precipitation are associated with weather and can be measured.

### Life Science

The Life Science unit addresses the characteristics and cycles of and relationships between living things and their environments. Topics include cellular organization, classification, ecosystems, genetics, and human health issues.

The Life Science unit addresses the characteristics and cycles of and relationships between living things and their environments. Topics include cellular organization, classification, ecosystems, genetics, and human health issues.

- The learner will be able to (IMPORTANT) identify that living things have certain traits that enable them to adapt to specific environments and carry out basic life processes and that different organisms are found in different environments.

# Course Syllabus

## Science, TN: Kindergarten

Jefferson County Schools Curriculum, Final  
Jefferson County Schools

---

- The learner will be able to (IMPORTANT) identify that living things are composed of smaller parts and be able to assemble and take apart objects to determine that most things are made up of parts.
- The learner will be able to (IMPORTANT) identify that the small parts that make up an organism contribute to the performance and well being of the whole organism and observe what happens when an object is missing a part.
- The learner will be able to (IMPORTANT) recognize that organisms use their senses to interact with the environment around them.
- The learner will be able to (IMPORTANT) identify the five senses of humans and discriminate among them.
- The learner will be able to categorize an object as either natural or manufactured.

### Physical Science

The Physical Science unit includes concepts related to matter, forces, motion, and energy, as well as their interactions. Topics include chemical and physical changes, electricity, magnetism, heat, light, sound, machines, work and power.

The Physical Science unit includes concepts related to matter, forces, motion, and energy, as well as their interactions. Topics include chemical and physical changes, electricity, magnetism, heat, light, sound, machines, work and power.

- The learner will be able to (IMPORTANT) recognize that the motion of objects can differ in direction.
- The learner will be able to (IMPORTANT) identify that the observable properties of an object can change under different conditions and describe an object according to its simple properties.
- The learner will be able to (IMPORTANT) recognize that sound is produced when an object vibrates and that sounds are different.