

## Science: Grade 3

### Scientific Inquiry

- Asks questions about objects, organisms, and events
- Uses observations to make predictions
- Plans and conducts a “fair test” with the teacher’s help
- Identifies patterns based on observations and summarizes findings
- Compares and groups objects based on observable and measurable characteristics
- Analyzes and makes statements about data displayed
- Communicates scientific explorations through discussions with peers
- Demonstrates safe practices in science

### History and Nature of Science

- Builds awareness that science and technology have been practiced for a long time
- Knows that scientists share and critique new information with others
- Describes some historical examples of contributions to science

### Science in Personal and Social Perspectives

- Compares the needs of a population with the sources and quantities of resources
- Realizes that some resources humans obtain from the environment are limited

### Science and Technology

- Identifies a problem, implements a proposed solution for the problem
- Identifies some of the human-made things that aid in scientific inquiry
- Identifies some of the technological solutions that make life easier and the trade-offs

### Physical Science

- Gains an understanding that mass is conserved
- Recognizes that materials have properties that are independent of the shape or size
- Demonstrates a basic knowledge of the relationship between force and change of motion
- Examines how magnets can cause some things to move without touching them
- Builds awareness of how electrical flow can produce light, movement, heat, and magnetic fields

### Life Science

- Compares and contrasts structure and function among different organisms
- Gains an understanding that the details in the life cycles of organisms are different
- Differentiates between inherited physical traits not inherited in plants
- Investigates how changes in environments affect plants and animals

### Earth and Space Sciences

- Gains an understanding of how some earth materials are created and change
- Realizes that some earth processes are rapid and some are slow
- Builds awareness that our sun is a star among other stars in the universe

\*A DoDEA standards reference tool for teachers of grades PK-12. Complete standards for Science are listed at the DoDEA web site: <http://www.ododea.edu> (Standards & Curriculum-PK-12 Standards & Curriculum- Content Standards)