

MIDLAND PARK SCHOOLS
MIDLAND PARK, NEW JERSEY 07432

SCIENCE -GRADE K

COURSE PERFORMANCE OBJECTIVES

Upon successful completion of the requirements for this course, the students will demonstrate proficiency in the knowledge and skills, objectives and attitudes. 2009 Science Core Curriculum Content Standards established by New Jersey are included here. Upon successful completion of the requirements for this course, the students will:

A. Knowledge

The students will

1. Understand the weather changes during the seasons of the year.
2. Understand the four seasons and the critical elements of each.
3. Understand seed germination.
4. Understand the changes in the life cycles of insects
5. Understand the process of hatching as a reproductive process.
6. Know names of birds and animals and understand how they adapt to changing seasons.
7. Understand the patterns of likeness and difference.

B. Skills

The students will be able to

1. Observe and discuss the weather changes during the seasons of the year.
2. Identify the four seasons and be able to discuss the four seasons.
3. Observe and discuss seed germination.
4. Discuss changes in life cycles of insects -specifically the butterfly and praying mantis.
5. Observe and participate in hatching chicks with an incubator.
6. Identify birds and animals and how they adapt to the changing seasons.
7. Recognize patterns of likeness and difference.

C. Student's Performance

Evaluation Activities

Students can expect regularly scheduled written as well as oral tests and quizzes. Additional activities will be geared to appeal to specific learning styles and to multiple intelligences. Students will be expected to participate daily in class discussions and other classroom activities in addition to completing all homework assignments.

D. Grading Criteria: Traditional and Alternative Measures

1. Tests and quizzes

2. Activities:

Research
Oral and written assignments
Projects
Portfolios
Exhibitions

3. Homework

4. Class participation

E. Textbook(s) and/or other support materials

2009 NJCCCS in Science

5.4.P.F.1 Observe and record weather;

5.4.2.F.1 Observe and document daily weather conditions and discuss how the weather influences your activities for the day.

5.3.P.A.1 - Investigate and compare the basic physical characteristics of plants, humans, and other animals.

5.3.P.A.2 - Observe similarities and differences in the needs of various living things, and differences between living and nonliving things.

5.3.P.D.1- Observe and record change over time and cycles of change that affect living things (e.g., use baby photographs to discuss human change and growth, observe and photograph tree growth and leaf changes throughout the year, monitor the life cycle of a plant).

5.3.2.D.1 - Record the observable characteristics of plants and animals to determine the similarities and differences between parents and their offspring.

5.3.2.D.2 - Determine the characteristic changes that occur during the life cycle of plants and animals by examining a variety of species, and distinguish between growth and development.

