

PETERS TOWNSHIP SCHOOL DISTRICT

CORE BODY OF KNOWLEDGE

SCIENCE

GRADE 3

For each of the sections that follow, students may be required to analyze, recall, explain, interpret, apply, or evaluate the particular concepts being taught.

COURSE DESCRIPTION

Students will learn about the solar system including the earth, moon and stars. Students will explore concepts of earth movements, magnetism, and electricity. Students will explore concepts of pollution and life cycles with an embryology focus.

STUDY SKILLS

- Participation in classroom activities and complete workbook lessons and projects.

MAJOR UNIT THEMES:

1. EARTH, MOON, AND STARS

- Introduction to the natural patterns of the solar system
- Earth's natural cycles of seasons, rotation, and revolution
- Characteristics of the moon and the lunar phases
- Characteristics of the sun and importance to Earth
- Differences among the planets and other natural heavenly bodies
- Distances in space and scale models

2. EARTH MOVEMENTS

- Composition and geological history of the Earth
- Forces which cause catastrophic changes-volcanoes & earthquakes
- Gradual changes from forces of nature

3. MAGNETISM AND ELECTRICITY

- Magnetism and how we use it
- Static electricity

- Current Electricity, building circuits, and how we use it
- How magnetism & electricity can work together

4. POLLUTION

- Recognizing pollution around us
- Preventing more pollution by reducing, recycling, and reusing materials

5. LIFE CYCLES (EMBRYOLOGY FOCUS)

- Natural life cycle of a chick
- Differences in physical characteristics of chicks
- Main elements of animal cycles

MATERIALS (and Supplemental materials used in course):

- Delta Science Modules Earth Moon & Sun Readers with FOSS kits
- Delta Science Modules Magnetism & Electricity Readers with FOSS kits
- Delta Science Modules Earth Movements Readers
- Delta Science Modules Pollution Readers
- From Egg to Chicken, Grolier Publishing
- Experiments in Poultry Science, 4-H Cooperative Curriculum System
- Hatching Classroom Projects, 4-H Cooperative Curriculum System
- Supplemental books from school library
- District owned and approved videos and DVDs

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