

**SCIENCE
GRADE 6**

Counselors are available to assist parents and students with course selections and career planning. Parents may arrange to meet with the counselor by calling the school's guidance department.

COURSE DESCRIPTION

The Science Grade 6 course represents an activity-based, inquiry course in which students study the life, physical, and earth sciences. Through hands-on activities, students learn about the natural and technological world, improve their inquiry skills and ability to solve problems, and develop an understanding of the limits and possibilities of science and technology.

COURSE GOALS

- Provide a broad content base in the life, physical, and earth sciences
- Develop problem-solving and decision-making skills through experimentation, research, and discussion
- Develop an awareness of the interdisciplinary nature of science and its relevance to society
- Develop basic communication skills
- Provide reading and study skills

PREREQUISITE

Fifth-grade science

OPTION FOR NEXT COURSE

Life Science 7

REQUIRED STUDENT TEXTBOOKS

Pearson Prentice Hall: *Science Explorer, Grade 6, Virginia Edition, 2004*

MINIMUM REQUIREMENTS

- Demonstrate knowledge and understanding of objectives through hands-on activities, projects, and oral and/or written tests, quizzes, and reports
- Participate in the hands-on investigations adhering to all safety procedures

THE INSTRUCTIONAL OBJECTIVES THAT COMPRISE THE GRADE 6 SCIENCE COURSE ARE SUMMARIZED AS FOLLOWS FROM THE CURRICULUM:

- Demonstrate an understanding of scientific reasoning, logic, and the nature of science by planning and conducting investigations.
- Investigate and understand basic sources of energy, their origins, transformations, and uses.
- Investigate and understand the role of solar energy in driving most natural processes within the atmosphere, the hydrosphere, and on Earth's surface.
- Investigate and understand that all matter is made up of atoms.
- Investigate and understand the unique properties and characteristics of water and its roles in the natural and human-made environment.
- Investigate and understand the properties of air and the structure and dynamics of Earth's atmosphere.
- Investigate and understand the natural processes and human interactions that affect watershed systems.
- Investigate and understand public policy decisions relating to the environment.



VIRGINIA BEACH CITY PUBLIC SCHOOLS

A H E A D O F T H E C U R V E

MISSION STATEMENT

The Virginia Beach City Public Schools, in partnership with the entire community, will empower every student to become a life-long learner who is a responsible, productive and engaged citizen within the global community.

DEPARTMENT OF CURRICULUM AND INSTRUCTION

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Alternative formats of this publication which may include taped, Braille, or large print materials are available upon request for individuals with disabilities. Call or write The Department of Curriculum and Instruction, Director of Secondary Instructional Services, Virginia Beach City Public Schools, 2512 George Mason Drive, P.O. Box 6038, Virginia Beach, VA 23456-0038, Telephone (757) 263-1070 or (757) 263-1429, fax (757) 263-1412.