

National Science Standards

The Aquatic Adventure curriculum has been developed to fulfill the **National Science Education Standards**, developed by the **National Science Resource Council**. Each of the following six content standards for grades 5-8 are met through a variety of hands-on activities that allow students to use high level thinking skills and to work in groups to develop cooperative learning strategies. Highlighted bullet statements represent portions of each standard that are directly satisfied by selected activities. See the chart on the next page for specific lesson-to-standard correlations.

Science as Inquiry

CONTENT STANDARD A

As a result of their activities in grades 5-8, all students should develop

- Abilities necessary to do scientific inquiry
- Understandings about scientific inquiry

Physical Science

CONTENT STANDARD B

As a result of their activities in grades 5-8, all students should develop an understanding of

- Properties and changes of properties in matter
- Motions and forces
- Transfer of energy

Life Science

CONTENT STANDARD C

As a result of their activities in grades 5-8, all students should develop an understanding of

- Structure and function in living systems
- Reproduction and heredity
- Regulation and behavior
- Populations and ecosystems
- Diversity and adaptations of organisms

Earth and Space Science

CONTENT STANDARD D

As a result of their activities in grades 5-8, all students should develop an understanding of

- Structure of the earth system
- Earth's history

Science and Technology

CONTENT STANDARD E

As a result of activities in grades 5-8, all students should develop

- Abilities of technological design
- Understandings about science and technology

Science in Personal and Social Perspectives

CONTENT STANDARD F

As a result of activities in grades 5-8, all students should develop understanding of

- Personal health
- Populations, resources, and environments
- Natural hazards
- Risks and benefits
- Science and technology in society

History and Nature of Science

CONTENT STANDARD G

As a result of their activities in grades 5-8, all students should develop an understanding of

- Science as a human endeavor
- Nature of Science
- History of Science

