



Appendix A—Content Standards

National Science Education Content Standards

- **CONTENT STANDARD A:** Science as Inquiry - As a result of activities in grades 9-12, all students should develop
 - Abilities necessary to do scientific inquiry
 - Understandings about scientific inquiry
- **CONTENT STANDARD B:** Physical Science - As a result of their activities in grades 9-12, all students should develop an understanding of
 - Structure of atoms
 - Structure and properties of matter
 - Chemical reactions
 - Motions and forces
 - Conservation of energy and increase in disorder
 - Interactions of energy and matter
- **CONTENT STANDARD C:** Life Science - As a result of their activities in grades 9-12, all students should develop understanding of
 - The cell
 - Molecular basis of heredity
 - Biological evolution
 - Interdependence of organisms
 - Matter, energy, and organization in living systems
 - Behavior of organisms
- **CONTENT STANDARD D:** Earth and Space Science - As a result of their activities in grades 9-12, all students should develop an understanding of
 - Energy in the earth system
 - Geochemical cycles
 - Origin and evolution of the earth system
 - Origin and evolution of the universe
- **CONTENT STANDARD E:** Science and Technology - As a result of activities in grades 9-12, all students should develop
 - Abilities of technological design
 - Understandings about science and technology

- **CONTENT STANDARD F:** Science in Personal and Social Perspectives - As a result of activities in grades 9-12, all students should develop understanding of
 - Personal and community health
 - Population growth
 - Natural resources
 - Environmental quality
 - Natural and human-induced hazards
 - Science and technology in local, national, and global challenges

- **CONTENT STANDARD G:** History and Nature of Science - As a result of activities in grades 9-12, all students should develop understanding of
 - Science as a human endeavor
 - Nature of scientific knowledge
 - Historical perspectives

National Health Education Content Standards

- **STANDARD 1** – Students will comprehend concepts related to health promotion and disease prevention to enhance health.

- **STANDARD 2** – Students will analyze the influence of family, peers, culture, media, technology and other factors on health behaviors.

- **STANDARD 3** – Students will demonstrate the ability to access valid information and products and services to enhance health.

- **STANDARD 4** – Students will demonstrate the ability to use interpersonal communication skills to enhance health and avoid or reduce health risks.

- **STANDARD 5** – Students will demonstrate the ability to use decision-making skills to enhance health.

- **STANDARD 6** – Students will demonstrate the ability to use goal setting skills to enhance health.

- **STANDARD 7** – Students will demonstrate the ability to practice health-enhancing behaviors and avoid or reduce risks.

- **STANDARD 8** – Students will demonstrate the ability to advocate for personal, family, and community health.