

Manuscript Number:

Reviewer ID:

Title of Manuscript:

National Science Education Standards Content Standards: K-4

Which of the following NSES Content Standards are promoted in this manuscript?

Standard A: Science as Inquiry

- abilities necessary to do scientific inquiry
- understanding about scientific inquiry

Standard B: Physical Science

- properties of objects and materials
- position and motion of objects
- light, heat, electricity, and magnetism

Standard C: Life Science

- characteristics of organisms
- life cycles of organisms
- organisms and environments

Standard D: Earth and Space Science

- properties of earth materials
- objects in the sky
- changes in earth and sky

Standard E: Science and Technology

- abilities of technological design
- understanding about science and technology
- ability to distinguish between natural objects and objects made by humans

Standard F: Science in Personal and Social Perspectives

- personal health
- characteristics and changes in populations
- types of resources
- changes in environment
- science and technology in local challenges

Standard G: History and Nature of Science

- science as a human endeavor

<http://www.nap.edu/readingroom/books/nses/6c.html>

Iowa Teaching Standards and Model Criteria

Which of the following Iowa Teaching Standards is a teacher likely to improve upon by using ideas from this manuscript?

Standard 1: Demonstrates ability to enhance academic performance and support for implementation of the school district's student achievement goals.

(For example: provides evidence of student learning to students, families, and staff; Uses student performance data as a guide for decision making; Accepts and demonstrates responsibility for creating a classroom culture that supports the learning of every student; Participates in and contributes to a school culture that focuses on improved student learning)

Standard 2: Demonstrates competence in content knowledge appropriate to the teaching position.

Standard 3: Demonstrates competence in planning and preparing for instruction.

Standard 4: Uses strategies to deliver instruction that meets the multiple learning needs of students.

Standard 5: Uses a variety of methods to monitor student learning.

Standard 6: Demonstrates competence in classroom management.

Standard 7: Engages in professional growth.

Standard 8: Fulfills professional responsibilities established by the school district.

(For example: demonstrates an understanding of and respect for all learners and staff; collaborates with students, families, colleagues, and communities to enhance student learning)

<http://www.iowa.gov/boee/stndrds.html>