

Grades preK-2 Scientific Inquiry, Literacy, Numeracy and Bioethics

How is scientific knowledge created and communicated?

Content Standards

Expected Performances

SCIENTIFIC INQUIRY

- ◆ Scientific inquiry is a thoughtful and coordinated attempt to search out, describe, explain and predict natural phenomena.

1. Develop observation skills.
2. Formulate questions.
3. Plan and conduct experiments.
4. Make systematic observations.
5. Collect and organize data.
6. Interpret and analyze data.
7. Draw conclusions.

SCIENTIFIC LITERACY

- ◆ Scientific literacy includes speaking, listening, presenting, interpreting, reading and writing about science.

8. Read, write, listen and speak about observations of the natural world.
9. Seek information in books, magazines and pictures.
10. Present information in words and drawings.

SCIENTIFIC NUMERACY

- ◆ Mathematics provides useful tools for the description, analysis and presentation of scientific data and ideas.

BIOETHICS

- ◆ Humans have responsibility for the Earth, its resources, and its inhabitants.

11. Use standard tools to measure and describe physical properties such as weight, length and temperature.
12. Use non-standard measures to estimate and compare the size of objects.
13. Count, order and sort objects by their properties.
14. Represent information in bar graphs.
15. Recognize that living things, including human beings, are interrelated and interdependent.
16. Understand that human beings can sometimes disturb the environment in ways that harm other creatures.
17. Behave responsibly toward animals and plants in their care.