

Grades 3-5 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. Analyze, critique and communicate investigations using words, graphs, and drawings.
9. Read and write a variety of fiction and non-fiction science-related texts.
10. Search the web and locate relevant science information.

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 measurement tools and standard units (e.g. centimeters, meters, grams, kilograms) to describe objects and materials.

12. Use mathematics to analyze, interpret, and present data.

13. Recognize that living things, including human beings, are interrelated and interdependent.

14. Understand that human beings can sometimes disturb the environment in ways that harm other creatures.

15. Behave responsibly toward animals and plants in their care.