

National Education Standards

Lesson Plan 1 & 2 Google Earth, 6-8 Grade

Science as Inquiry

As a result of activities in **grades 5-12**, all students should develop:

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

Physical Sciences

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

- Transfer of Energy

Waves and their Applications in Technologies for Information Transfer:

How are instruments that transmit and detect waves used to extend human senses?

By the end of grade 8. Appropriately designed technologies make it possible to detect and interpret many types of signals that cannot be sensed directly. Designers of such devices must understand both, the signal and its interactions with matter.

Science and Technology

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

- Understandings about science and technology

Interdependence of Science, Engineering and Technology:

What are the relationships among science, engineering, and technology?

By the end of grade 8. Engineering advances have led to important discoveries in virtually every field of science, and scientific discoveries have led to the development of entire industries and engineered systems. In order to design better technologies, new science may need to be explored. Technologies in turn extend the measurement, exploration, modeling, and computational capacity of scientific investigations.

Resources:

National Science Education Standards National Committee on Science Education Standards and Assessment, National Research Council, ISBN 0-309- 54985-X

A Framework for K-12 Science Education: Practices, Crosscutting Concepts, and Core Ideas Committee on Conceptual Framework for the New K-12 Science Education; Standards; National Research Council, ISBN 978-0-309-21742-2

