Grade: 4
Academic Standard: 4.1
Academic Standard Indicator: 4.1.3
Core Standard: Yes

Standard Description (Academic or Indicator): Explain that clear communication is an essential part of doing science since it enables scientists to inform others about their work, to expose their ideas to evaluation by other scientists, and to allow scientists to stay informed about scientific discoveries around the world.

Suggestion for Integrating International Content: Have students examine the benefits of international forums, such as the The Climate Project, and discuss how scientists’ work from many countries address similar topics and offer a range of solutions and action plans. Extension: Have students hold their own global climate summit and present a position from a specific country’s perspective. Suggested resource: http://www.theclimateproject.org.

Grade: 4
Academic Standard: 4.3
Academic Standard Indicator: 4.3.5
Core Standard: Yes

Standard Description (Academic or Indicator): Describe how waves, wind, water, and glacial ice shape and reshape the Earth’s land surface by erosion of rock and soil in some areas and depositing them in other areas.
Suggestion for Integrating International Content: Have students analyze how glaciers impact places like the Himalaya Mountains, Iceland, Greenland, Antartic, and Alaska.


Grade: 4
Academic Standard: 4.3
Academic Standard Indicator: 4.3.5
Core Standard: Yes

Standard Description (Academic or Indicator): Describe how waves, wind, water, and glacial ice shape and reshape the Earth’s land surface by erosion of rock and soil in some areas and depositing them in other areas.

Suggestion for Integrating International Content: Have student teams each choose a different region of the world. After researching the different ways in which wind, heat, and ice constantly reshape their region, have the teams make presentations to the whole class.

Grade: 4
Academic Standard: 4.3
Academic Standard Indicator: 4.3.12
Core Standard: yes

Standard Description (Academic or Indicator): Investigate, observe, and explain that heat is produced when one object rubs against another, such as one’s hands rubbing together.

Suggestion for Integrating International Content: Have students examine how people from around the world start fires by using friction, specifically different Aboriginal fire starting techniques. Suggested resource: http://www.aboriginalculture.com.au.

Grade: 4
Academic Standard: 4.4
Academic Standard Indicator: 4.4.8
Core Standard: No

Standard Description (Academic or Indicator): Know and explain that artifacts and preserved remains provide some evidence of the physical characteristics and possible behavior of human beings who lived a very long time ago.

Suggestion for Integrating International Content: Have students explore how scientists learn about human characteristics and behavior through mummies. Compare findings related to the Iceman (a mummy found in the Alps) and the Ice Maiden (a mummy of an Inca girl). Suggested resource: http://www.discoveryeducation.com.

Differentiated Instruction- Special Needs Accommodations: Set up a mock archaeological dig for students and have them match items that they find with possible uses.

Differentiated Instruction- Highly Able Accommodations: Provide a variety of presentation genres for students to select from to demonstrate content knowledge, such as a diorama, PowerPoint, chart, etc. Then have students present to other classes in the school.

Grade: 4
Academic Standard: 4.4
Academic Standard Indicator: 4.4.11
Core Standard: No

Standard Description (Academic or Indicator): Explain that there are some diseases that human beings can only catch once. Explain that there are many diseases that can be tools in identifying similarities and differences among them. They explore how organisms satisfy their needs in their environments.
prevented by vaccinations so that people do not catch them even once.

**Suggestion for Integrating International Content:** Explain to students that there are many diseases that can be prevented by vaccines, but some countries do not have access to the vaccinations that industrialized countries possess. Have students analyze the consequences to people, especially children, in these countries.