

SCIENCE – GRADE K

Grade: K

Academic Standard: K.1

Academic Standard Indicator: --

Core Standard: No

Standard Description (Academic or Indicator): Students are actively engaged in beginning to explore how their world works. They explore, observe, ask questions, discuss observations, and seek answers.

Suggestion for Integrating International Content: Have students create structures using natural or human-made materials from another country or region of the world.

Grade: K

Academic Standard: K.1

Academic Standard Indicator: --

Core Standard: No

Standard Description (Academic or Indicator): Students are actively engaged in beginning to explore how their world works. They explore, observe, ask questions, discuss observations, and seek answers.

Suggestion for Integrating International Content: Utilize videos, books, and the Internet to assist students to make observations about the natural world outside of the U.S.

Grade: K

Academic Standard: K.1

Academic Standard Indicator: K.1.1

Core Standard: Yes

Standard Description (Academic or Indicator): Raise questions about the natural world.

Suggestion for Integrating International Content: Ask students where natural or human-made materials come from. Then have students create structures using natural or human-made materials from another country or region.

Grade: K

Academic Standard: K.1

Academic Standard Indicator: K.1.2

Core Standard: Yes

Standard Description (Academic or Indicator): Begin to demonstrate that everybody can do science.

Suggestion for Integrating International Content: Have students use their senses to make observations about foods from other cultures. Then have students discuss how scientists use the skill of observation.

Grade: K

Academic Standard: K.2

Academic Standard Indicator: K.2.1

Core Standard: No

Standard Description (Academic or Indicator): Use whole numbers, up to 10, in counting, identifying, sorting, and describing objects and experiences.

Suggestion for Integrating International Content: Teach students to count to ten in various languages.

Grade: K

Academic Standard: K.3

Academic Standard Indicator: --

Core Standard: No

Standard Description (Academic or Indicator): Students investigate, describe, and discuss their natural surroundings. They begin to question why things move.

Suggestion for Integrating International Content: Have students consider how the sun warming soil, air, and water affects a county's climate. Discuss how Earth is warm near the equator and cold at the poles. Use a globe to show the location of these two places.

Grade: K

Academic Standard: K.3

Academic Standard Indicator: K.3.1

Core Standard: Yes

Standard Description (Academic or Indicator): Have students describe objects in terms of the materials they are made of, such as clay, cloth, or paper.

Suggestion for Integrating International Content: Share items that were manufactured in various countries across the globe with students and have them describe the materials from which the items are made.

Grade: K

Academic Standard: K.3

Academic Standard Indicator: K.3.2

Core Standard: Yes

Standard Description (Academic or Indicator): Investigate that things move in different ways such as fast, slow, etc.

Suggestion for Integrating International Content: Have students explore movement and determine how different animals from various parts of the world move in different ways. Students can compare a yak in Asia to a horse in Kentucky. **Extension:** Have students use a graphic organizer to compare movements of animals, such as fast and slow. Students can brainstorm what conditions affect an animal's movement, such as a yak's movement on icy slopes in China.

Grade: K

Academic Standard: K.4

Academic Standard Indicator: --

Core Standard: No

Standard Description (Academic or Indicator): Students ask questions about a variety of living things and everyday events that can be answered through shared observations.

Suggestion for Integrating International Content: Have students compare the weather conditions that occur from day to day and season to season in various countries.

Grade: K

Academic Standard: K.4

Academic Standard Indicator: K.4.1

Core Standard: Yes

Standard Description (Academic or Indicator): Give examples of plants and animals.

Suggestion for Integrating International Content: Have students read books about conservation, climate change, and saving animals or the earth and suggest how they can help keep the earth or animals healthy. **Suggested resources:** *Let's Save the Animals: A Flip-the-Flap Book* by Frances Berry (Walker and Company, 2011); *This is Our World: A Story About Taking Care of the Earth* by Emily Sollinger (Little Simon, 2010).

Grade: K

Academic Standard: K.4

Academic Standard Indicator: K.4.1

Core Standard: Yes

Standard Description (Academic or Indicator): Have students give examples of plants and animals.

Suggestion for Integrating International Content: Have students give examples of plants and animals from other parts of the world.
