

Illinois Learning Standards & Assessment Frameworks

Grade level: Late Elementary

Illinois Learning Standards:

12.E.2a Identify and explain natural cycles of the Earth's land, water and atmospheric systems (e.g., rock cycle, water cycle, water patterns).

12. E.2b Describe and explain short-term and long-term interactions of the Earth's components (e.g., earthquakes, types of erosion).

12. E.2c Identify and classify recyclable materials.

Assessment Frameworks:

Standard 12E Earth Science, Grade 4:

Basic Earth Science:

12.4.29 Understand that Earth's basic materials are land, water, and air.

12.4.30 Understand that a natural resource is any material found on Earth that is used by people. Understand the difference between renewable and nonrenewable resources. Know that fossil fuels come from animals and plants, and that oil, coal, and natural gas are examples of fossil fuels.

Water:

12.4.43 Understand the stages of the water cycle: evaporation, condensation, and precipitation.

12.4.44 Understand that most of Earth's surface is covered by water, and identify the major kinds of land and water formations: continents, mountain, valley, island, cave, ocean, lake, and rivers.

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Grade level: Middle/Junior High School

12. E. 3a Analyze and explain large-scale dynamic forces, events and processes that affect the Earth's land, water and atmospheric systems (e.g., Jetstream, hurricanes, plate tectonics).

12.E.3c Evaluate the biodegradability of renewable and nonrenewable natural resources.

Assessment Frameworks:

Standard 12E Earth Science, Grade 7:

The Earth's Structure:

12.7.70 Understand that lithospheric plates constantly move at rates of centimeters per year in response to movements in the mantle. Understand that geological events, such as earthquakes, and mountain building, result from these plate motions. Understand that over very long periods of time (millions of years), old mountain wear down, but new ones arise from catastrophic volcanic and earthquake activity.

12.7.73 Understand that glaciers can move at a rate of centimeters per year (sometimes faster), and that in the past, glacial movement has carved new geological features on various continents.

Water:

12.7.88 Understand the stages in the water cycle on Earth: evaporation, condensation, and precipitation.

12.7.89 Understand that water below the surface is groundwater and it forms when precipitation moves slowly downward through rocks and soil.