

K-ESS3-3 Earth and Human Activity

Students who demonstrate understanding can:

- K-ESS3-3. Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment.*** [Clarification Statement: Examples of human impact on the land could include cutting trees to produce paper and using resources to produce bottles. Examples of solutions could include reusing paper and recycling cans and bottles.]

The performance expectation above was developed using the following elements from the NRC document *A Framework for K-12 Science Education*:

Science and Engineering Practices

Obtaining, Evaluating, and Communicating Information

Obtaining, evaluating, and communicating information in K–2 builds on prior experiences and uses observations and texts to communicate new information.

- Communicate solutions with others in oral and/or written forms using models and/or drawings that provide detail about scientific ideas.

Disciplinary Core Ideas

ESS3.C: Human Impacts on Earth Systems

- Things that people do to live comfortably can affect the world around them. But they can make choices that reduce their impacts on the land, water, air, and other living things.

ETS1.B: Developing Possible Solutions

- Designs can be conveyed through sketches, drawings, or physical models. These representations are useful in communicating ideas for a problem's solutions to other people. (*secondary*)

Crosscutting Concepts

Cause and Effect

- Events have causes that generate observable patterns.

Observable features of the student performance by the end of the grade:

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| 1 | Communicating information |
| a | Students use prior experiences and observations to describe* information about: <ol style="list-style-type: none"> How people affect the land, water, air, and/or other living things in the local environment in positive and negative ways. Solutions that reduce the negative effects of humans on the local environment. |
| b | Students communicate information about solutions that reduce the negative effects of humans on the local environment, including: <ol style="list-style-type: none"> Examples of things that people do to live comfortably and how those things can cause changes to the land, water, air, and/or living things in the local environment. Examples of choices that people can make to reduce negative impacts and the effect those choices have on the local environment. |
| b | Students communicate the information about solutions with others in oral and/or written form (which include using models and/or drawings). |