

RESOURCES AVAILABLE TO TEACHERS

Other teaching aides are also available including:

- Videos
- Posters
- PowerPoint Presentations
- Visual Aids
- Full Curriculum for Teachers
- Activities

Visit our website to order your support materials today. The time you invest in our cause will come back to you many times over as you see the eyes of both young and old audiences respond to the information you share.

www.nutrientsforlife.org

YOUR VOICE OUR RESOURCES

Nutrients for Life is a nonprofit organization that provides information and resources to educators and individuals like you, to help inform the public about the vital role that fertilizer plays in feeding the world. The information we have compiled is science-based and user-friendly. It has been successfully implemented by educators across the country. Through a grassroots effort, we can spread the word about soil health to students of all ages and to adult organizations that are always looking for programs. Our story is not only important, but it is interesting and serves a vital role in educating consumers and decision-makers in the future.

IF YOU DON'T TELL YOUR STORY, WHO WILL?

Your story matters.
Soil science matters.

If Earth were an Apple

HERE'S A LESSON

WORTH TEACHING.

Appropriate for All Ages

RELAX!



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IMAGINE EARTH AS AN APPLE

Here is a quick, but effective lesson you can use at a moments notice.

Visual aids: knife, apple, cutting board, world, and paper plate.

This lesson is found in NFLF's Nourishing the Planet in the 21st Century curriculum.

When going to the classroom, bring a copy of the curriculum and accompanying poster to gift to the teacher. All NFLF resources are free.

PROCEDURE



1. Explain that the apple represents Earth. Cut the apple into four equal parts. Explain three of the parts represent Earth's 70 percent water (or approximately 3/4). Set the three parts aside. The last 1/4 piece represents Earth's land.



4. With the remaining piece cut it in half two more times. Set one 1/32 piece aside. The other 2 pieces represent cities. land that is too wet, land that is too dry and land that is too rocky.

5. The last 1/32 piece

(or 2%) represents the land

that is suitable to produce

the world's food. Point out

that the skin on this small

piece of apple represents

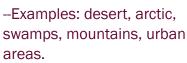
that we depend on to grow

the tiny layer of topsoil

food.



2. Remind students that this relatively small amount of land must be put to many different uses. Not all the land can be used for farming. Ask students for examples that cannot be farmed.



3. Use the knife to cut

the 1/4 piece of apple in

1/8 pieces. One 1/8 piece represents the land that is mountains, Arctic, Antarctic

half. Now you have two

and desert.



To help you visualize the presentation visit the following link:



https://vimeo.com/128288736

OVERVIEW

The apple is used to model the Earth. Students learn that just 1/32 of the earth surface is devoted to farmland. They discuss what sacrifices may be needed to feed a larger population. The activity demonstrates how we as a society use land. The amount of land on Earth stays the same, so as the world's population gets larger, it becomes even more important that we make wise decisions about how it is used.

MAJOR CONCEPTS

- Only a small portion of Earth's surface is used to grow food
- The world population is growing at a steady rate
- Unless food productivity increases, more land will have to be farmed
- Fertilizers help increase food productivity

