"Streaming Chemistry"

from Celebrating Chemistry

Chemists Celebrate Earth Day

ater is a very important part of our environment. It is found covering nearly threequarters of the Earth's surface. It is fun to splash in and it is also needed for life. In fact, we can survive much longer without food than without water to drink. Every living thing needs water. Without it, plants and trees will not grow; fish, clams, dolphins and other aquatic life will have nowhere to live; and animals like otters who

And did you know that when we drink water, there are some nutrients and minerals dissolved in the water? Fluoride

find their food in the water

will have nothing to eat.

is commonly added to drinking water in the United States to help prevent cavities from forming in our teeth. Plants "drink" water as well by absorbing

Water comes in 3 forms. Before you read on... can you name them?

it through their roots. Minerals and other nutrients enter the plant with the water. When we eat plants, some of these same nutrients give us energy to run,

play and think.

When enough clusters of cloud particles stick together, they tumble back down to Earth as rain, snow, hail, or sleet. This process of water evaporating, condensing and falling to Earth is the water cycle.

Water on the Earth can flow above the ground in a stream or river. It can run underground, too.
And water can also be frozen into large glaciers. Whichever form it is in, it can be a powerful force, changing the shape of the land as it erodes mountains and carves valleys.

three forms
of water are
solid, liquid and
gas. Did you guess
right? Solid water is
frozen and known as
ice. When water is boiled,
or the sun heats the
surface of a body of water,
its molecules can absorb
enough energy to evaporate
into the air—that is, to

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The

Up in Earth's atmosphere, water vapor cools and collects into clouds.

become a gas called water

vapor.

We cannot survive on Earth without water—so we must all do our part to take care of it. People use the fresh water of lakes and rivers for drinking, washing, cooking and growing food

Did you know that most of the world's population does not have direct access to clean water? We are very lucky to live in a country where clean water is "streaming" from our faucets. It is up to us to be responsible users of the water available on Earth.

