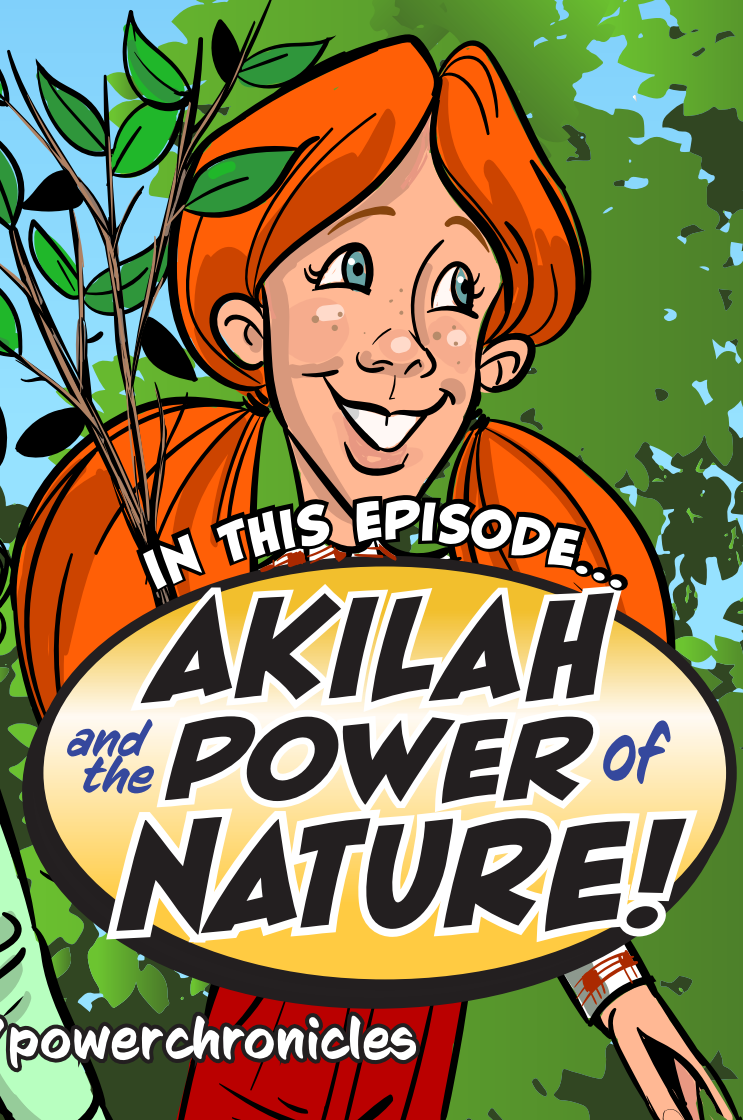


THE POWER CHRONICLES



Alliant Energy®



IN THIS EPISODE...

AKILAH
and the **POWER** of
NATURE!



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THE POWER CHRONICLES

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HI! MY NAME'S AKILAH. THIS IS A STORY ABOUT HOW I MADE A NEW FRIEND, AND HOW DR. NIX HELPED US LEARN ALL ABOUT WHY TREES ARE SO IMPORTANT TO OUR ENVIRONMENT!

I LOVE SCIENCE AND MATH AND THE DIFFERENCES THEY MAKE IN OUR WORLD. I HOPE YOU DO TOO!

HERE ARE SOME AMAZING TREE FACTS I LEARNED!!

- One large tree can provide a day's supply of oxygen for up to four people.
- Trees lower surface and air temperatures by providing shade.
- When planting trees near electric power lines, consider how tall your tree will grow. Be sure to select a tree that will not grow into the electric line.
- In one year, an acre of mature trees absorbs the amount of CO2 produced by a car driven 26,000 miles.
- Carefully positioned trees can reduce a household's energy consumption for heating and cooling by up to 25%.

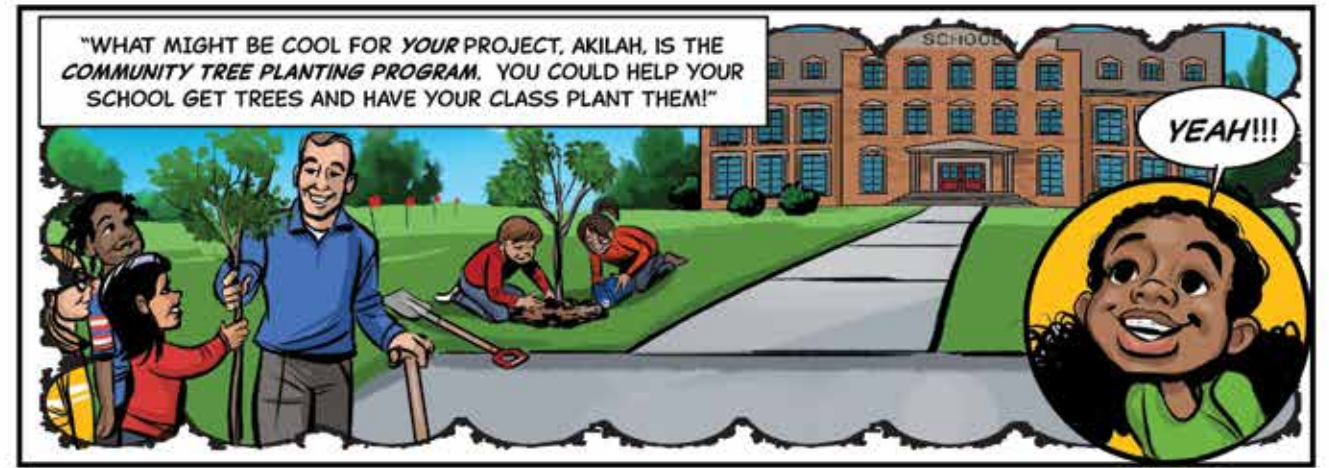
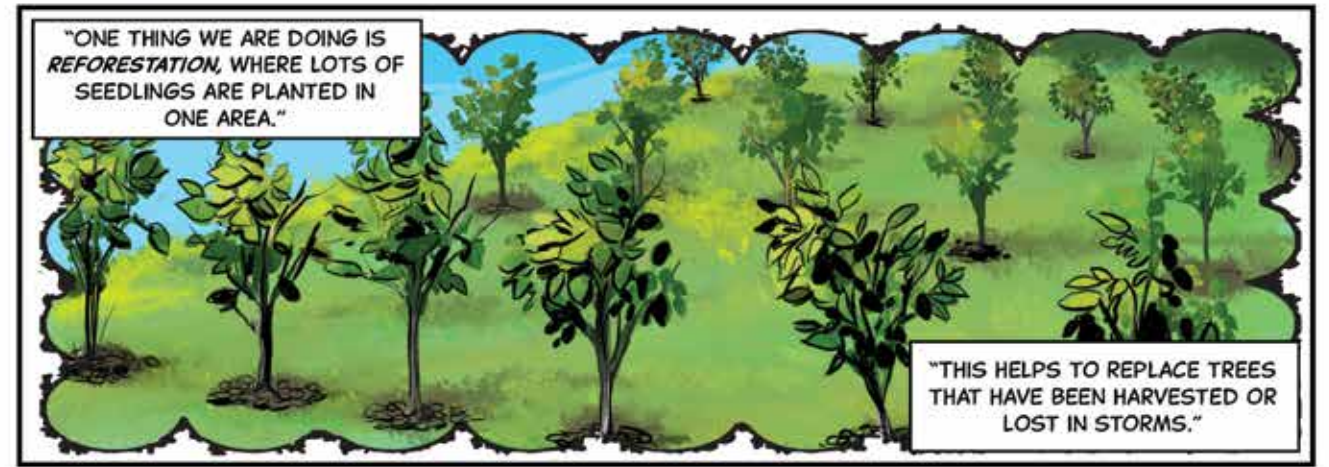
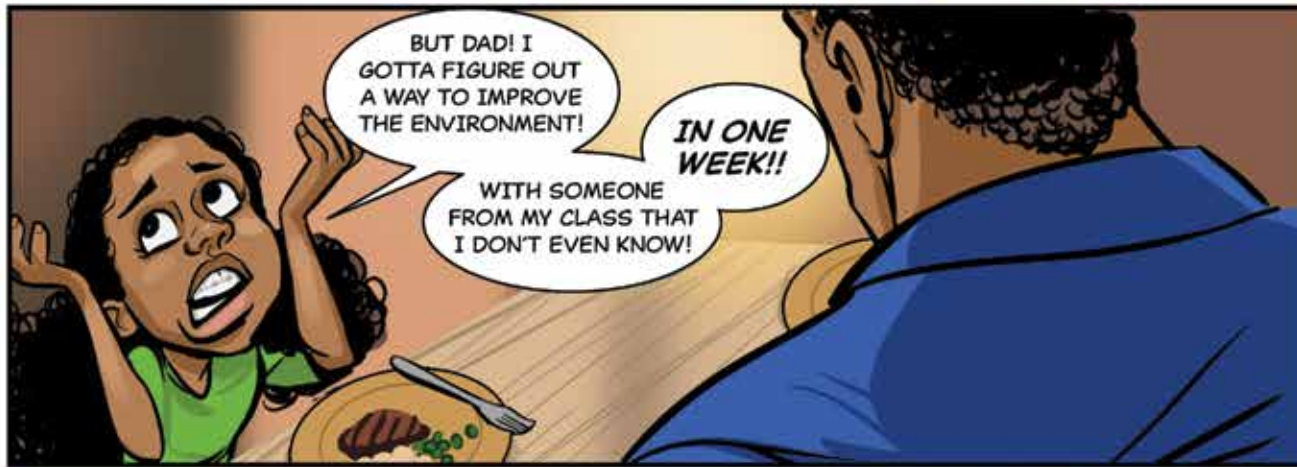
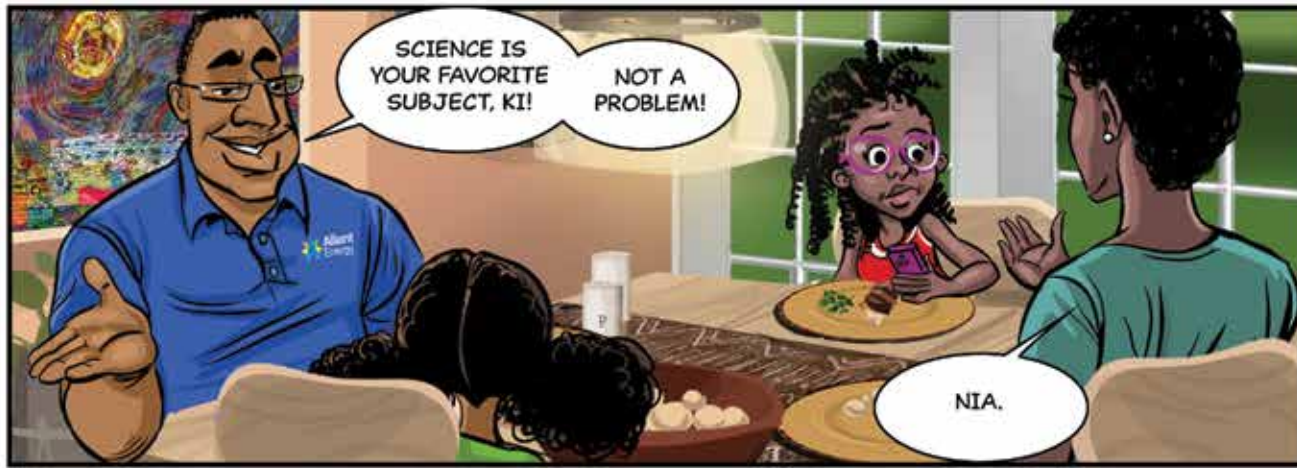
CHAPTER 2
"AKILAH and the POWER of NATURE!"

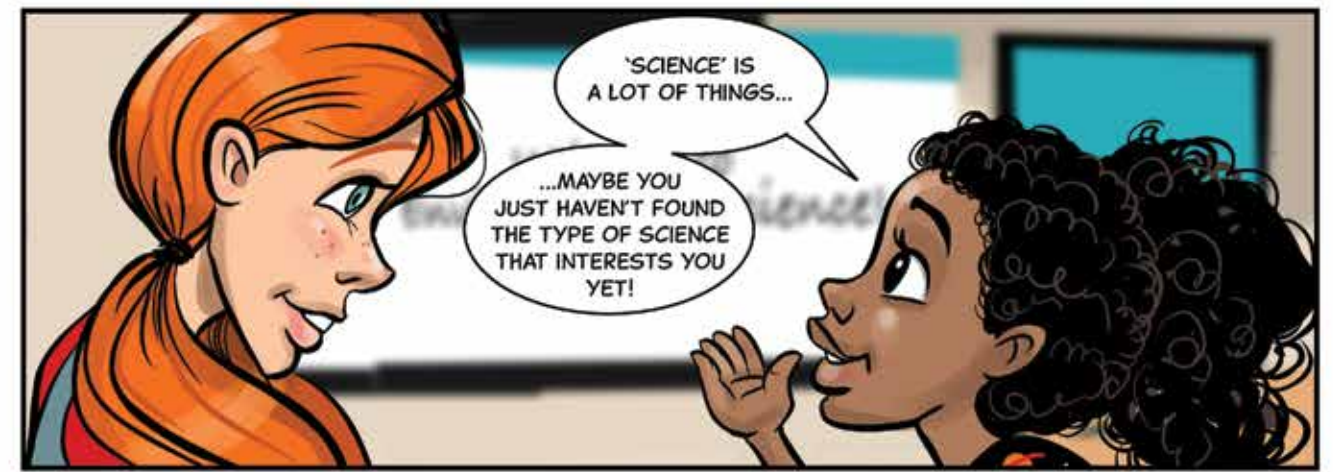
Story & Art by:
Barbara Lee
Art & Design

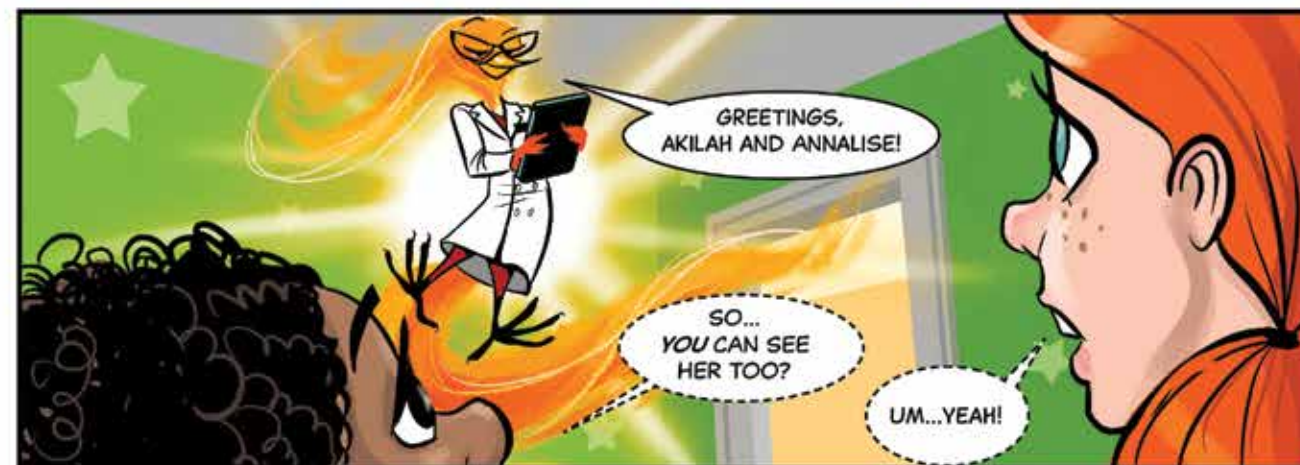
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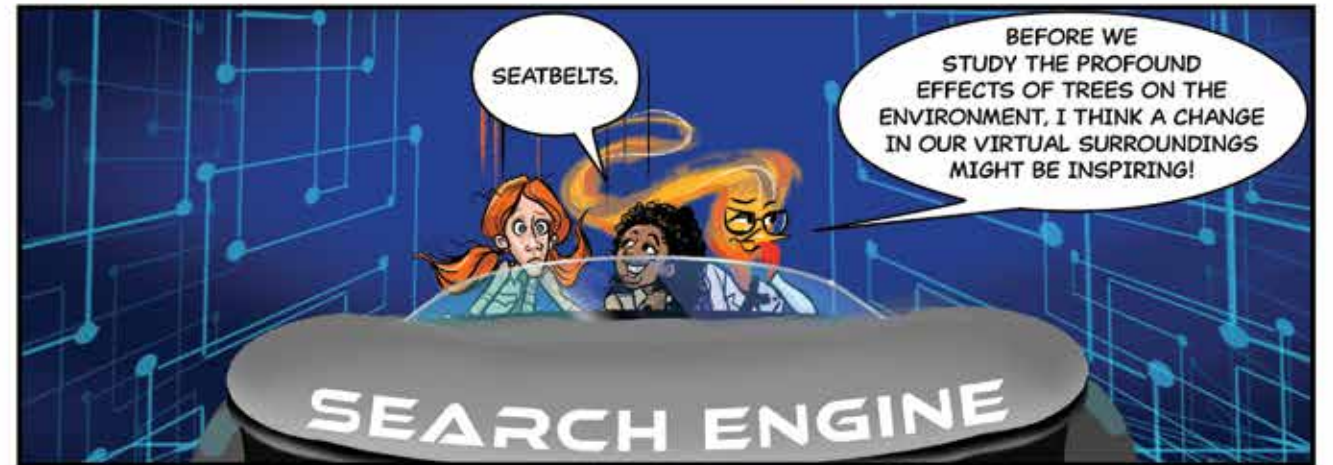
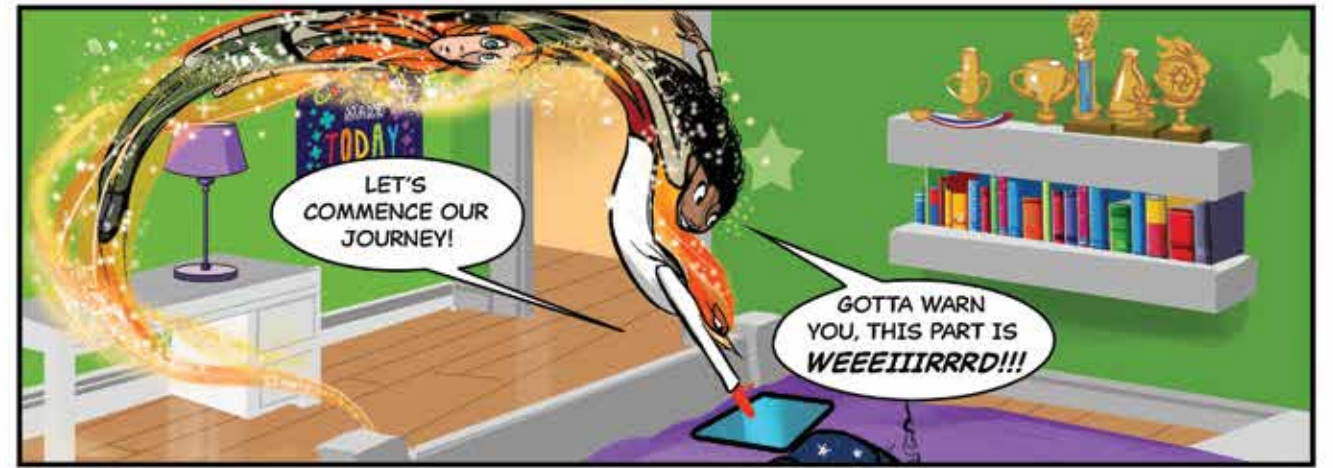
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OH...
HOO'S!



HELLO,
DIANNE!

HI THERE,
DR. NIX!



I'M VERY
GLAD TO MEET
YOU, GIRLS!

AKILAH AND
ANNALISE, MAY I
INTRODUCE YOU TO
DIANNE MOLLER!

SHE'S
THE FOUNDER
AND DIRECTOR OF
HOO'S WOODS!



THIS IS
MY FRIEND, HUSH
THE BARN OWL.

WE WONDERED
IF YOU WOULD SHARE
ABOUT THE IMPORTANT
ENVIRONMENTAL ROLE THAT
TREES PLAY IN YOUR WORK.



OH YES! TREES ARE PART OF
MANY ECOSYSTEMS, ESPECIALLY
HERE IN THE MIDWEST.



"TREES PROVIDE NESTING HABITAT
FOR HUNDREDS OF SPECIES."

"EVEN DOWNED TREES CAN
PROVIDE HOMES!"



"OF COURSE, TREES ARE A NECESSARY
FOOD SOURCE FOR HERBIVORES..."

...ANIMALS THAT EAT ONLY PLANTS."



THE CANOPY
PROVIDES SHADE
IN THE HOTTEST
MONTHS...

...TO HELP
WITH TEMPERATURE
REGULATION.

THIS DOESN'T JUST
KEEP WILDLIFE COOLER, BUT
EVERYONE ELSE TOO! THANKS TO THE
SHADE THAT TREES PROVIDE, WE DON'T
HAVE TO USE AIR CONDITIONING
AS OFTEN!



DIANNE, THE SHIPMENT OF TREES IS HERE.

EXCELLENT!



AS A MATTER OF FACT, WE ARE GOING TO BE REFORESTING AN AREA WITH YOUNG TREES TODAY!



THAT'S WHAT WE'RE WANTING TO DO AT OUR SCHOOL!

THINK OF ALL THE ANIMALS THAT CAN LIVE IN THE TREES WE PLANT!



HUSH APPROVES!

WINK



GOODBYE, HUSH!

THANK YOU, MS. MOLLER! GOODBYE!



POP!

SEARCH ENGINE

AH GOOD! A RAIN SHOWER.

NOW WE GET TO ACTUALLY SEE HOW TREES CLEAN AIR AND WATER!



HOW...?



SSHHHHWOOP!



NOW TO JUST SQUEEZE INTO ONE OF THESE RAINDROPS!

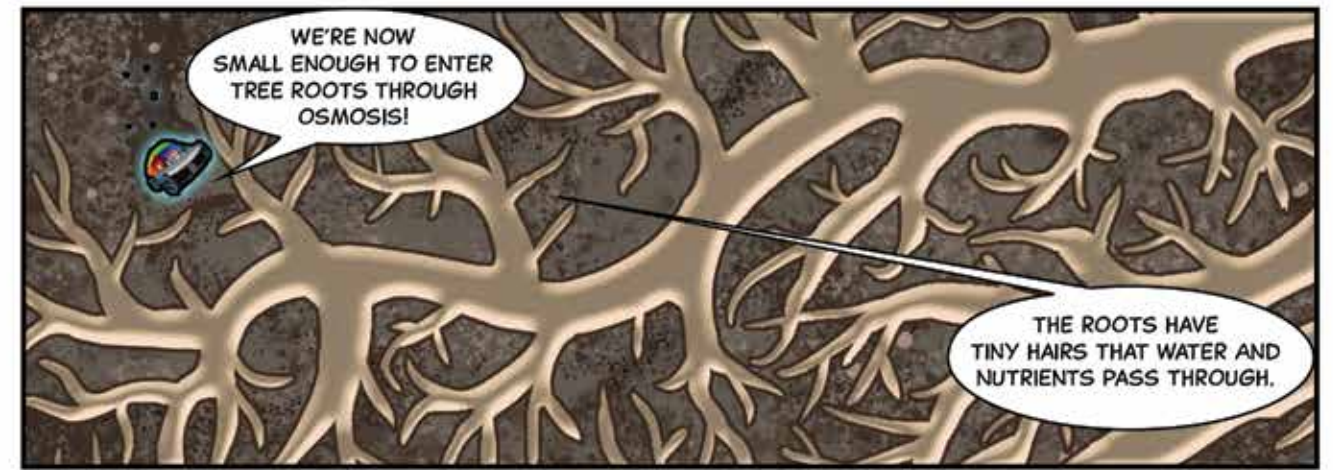


VERY GOOD!



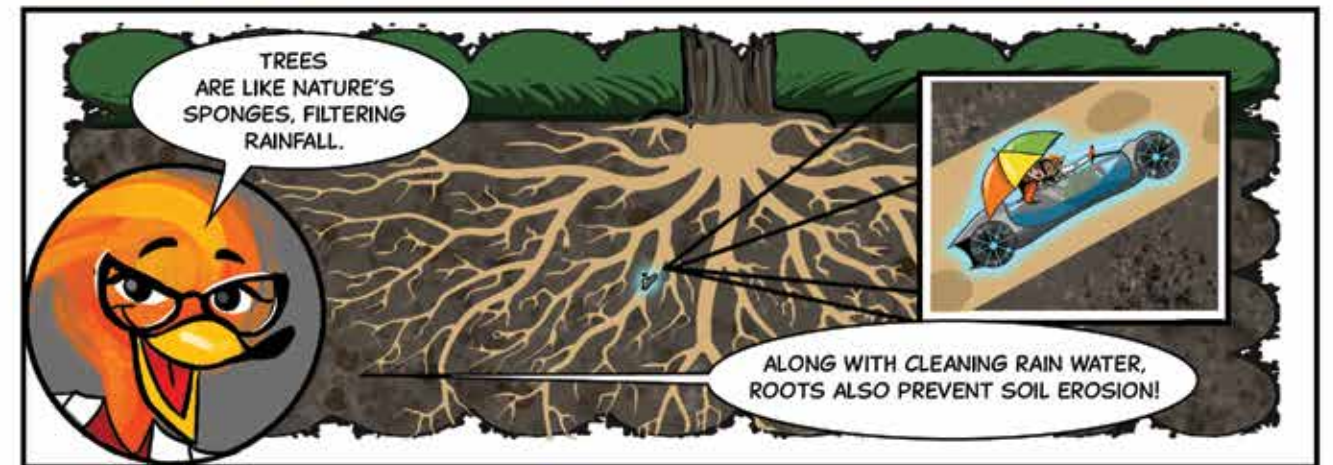
DOWN WE FALL!

WHOOOAA!!



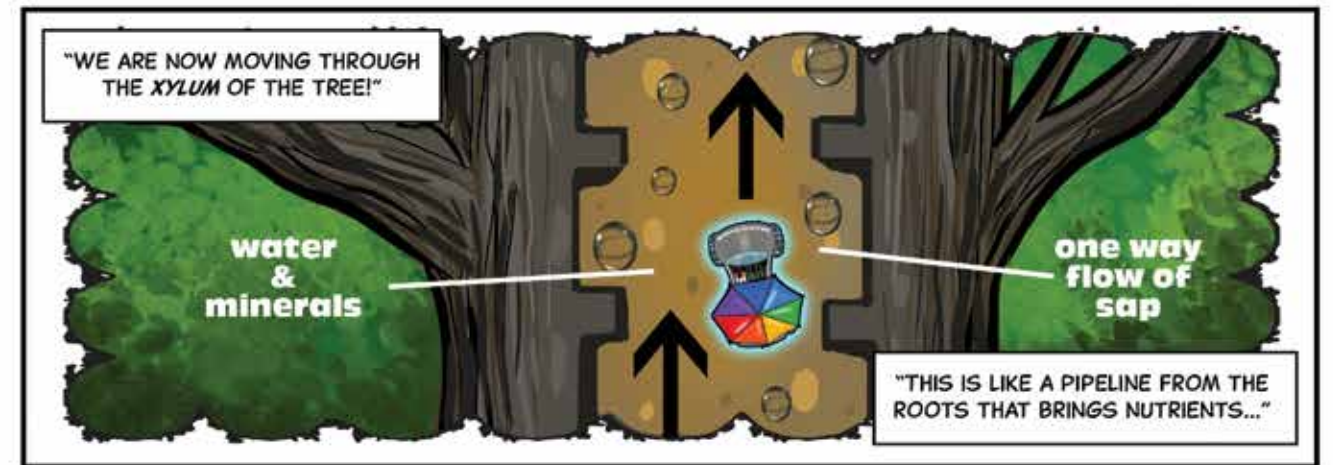
WE'RE NOW SMALL ENOUGH TO ENTER TREE ROOTS THROUGH OSMOSIS!

THE ROOTS HAVE TINY HAIRS THAT WATER AND NUTRIENTS PASS THROUGH.



TREES ARE LIKE NATURE'S SPONGES, FILTERING RAINFALL.

ALONG WITH CLEANING RAIN WATER, ROOTS ALSO PREVENT SOIL EROSION!

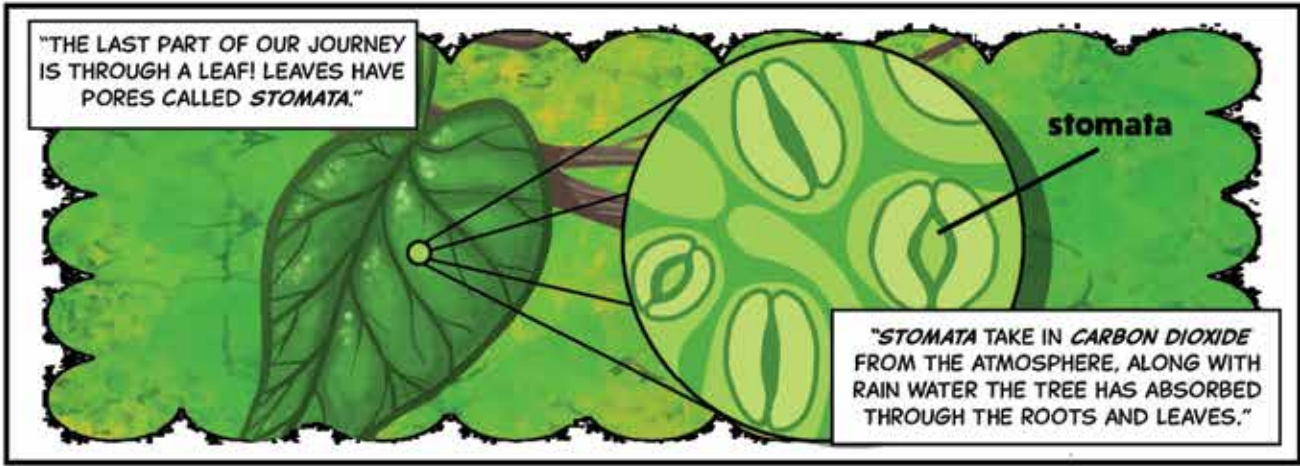


"WE ARE NOW MOVING THROUGH THE XYLEM OF THE TREE!"

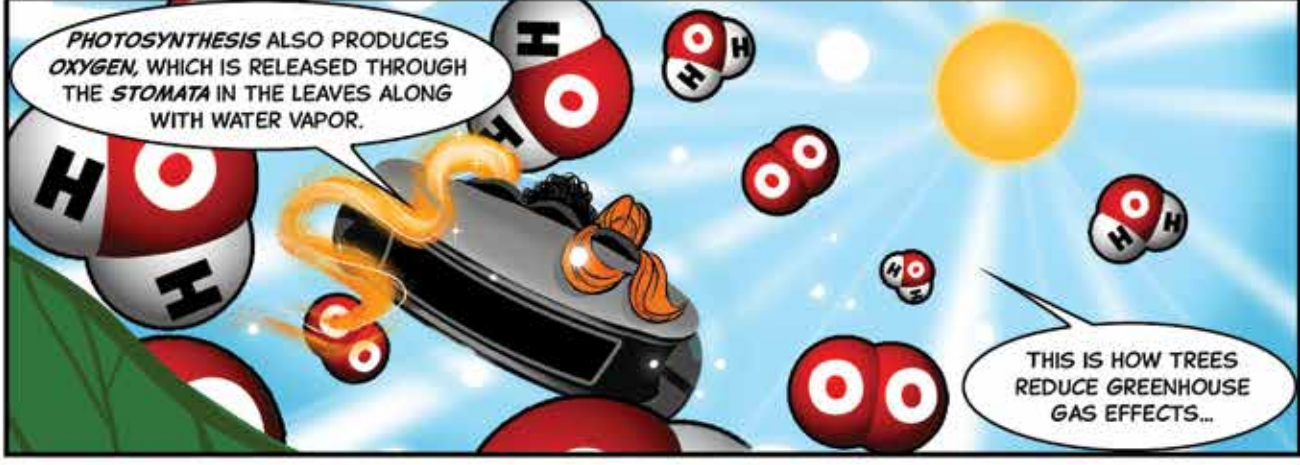
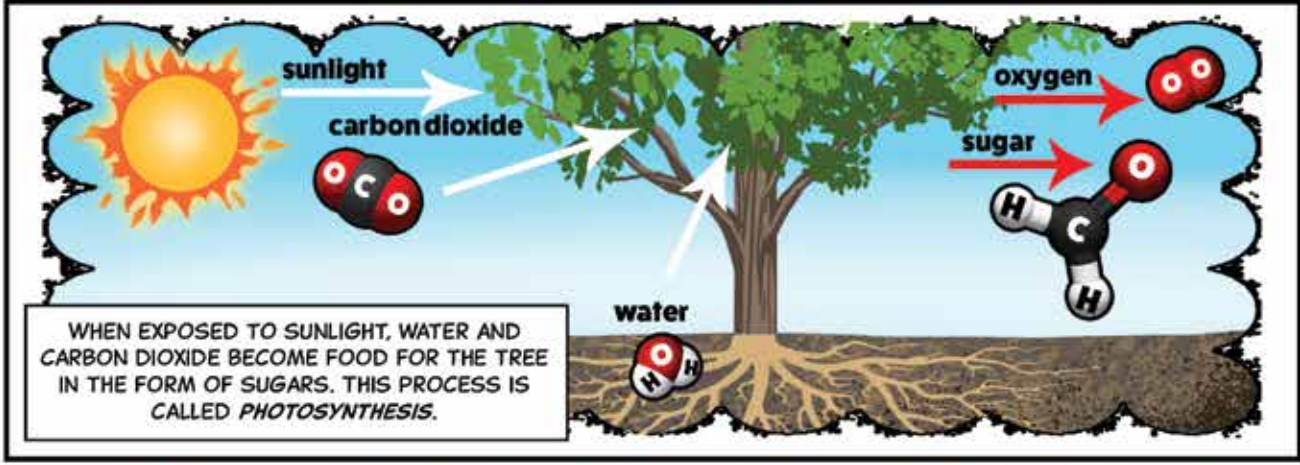
"THIS IS LIKE A PIPELINE FROM THE ROOTS THAT BRINGS NUTRIENTS..."

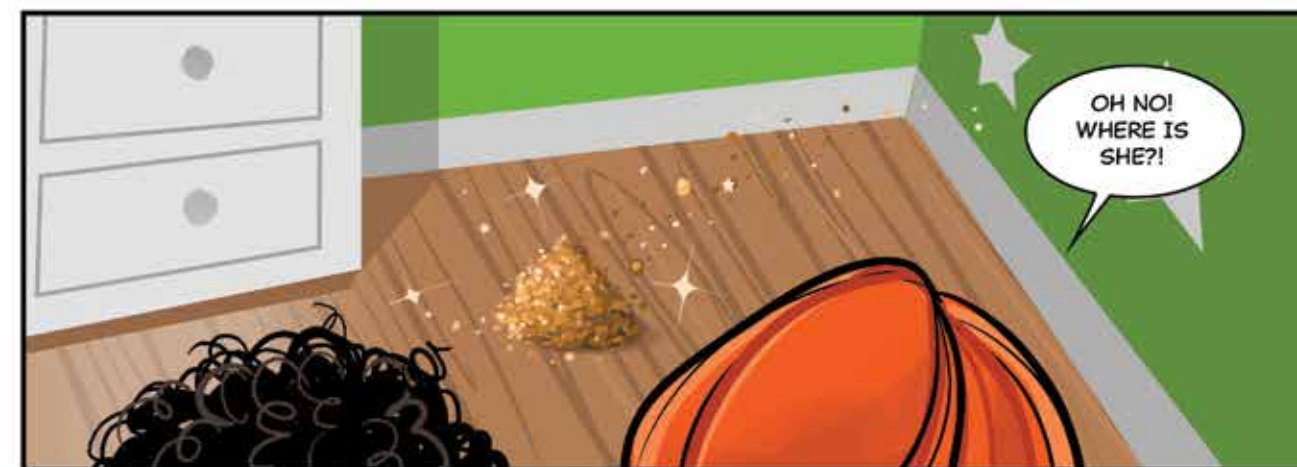
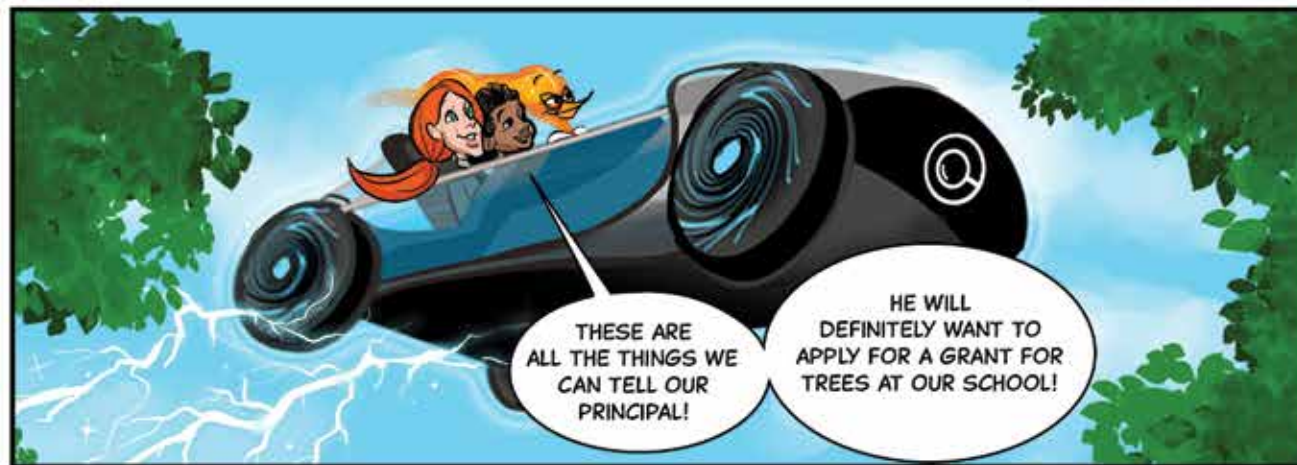


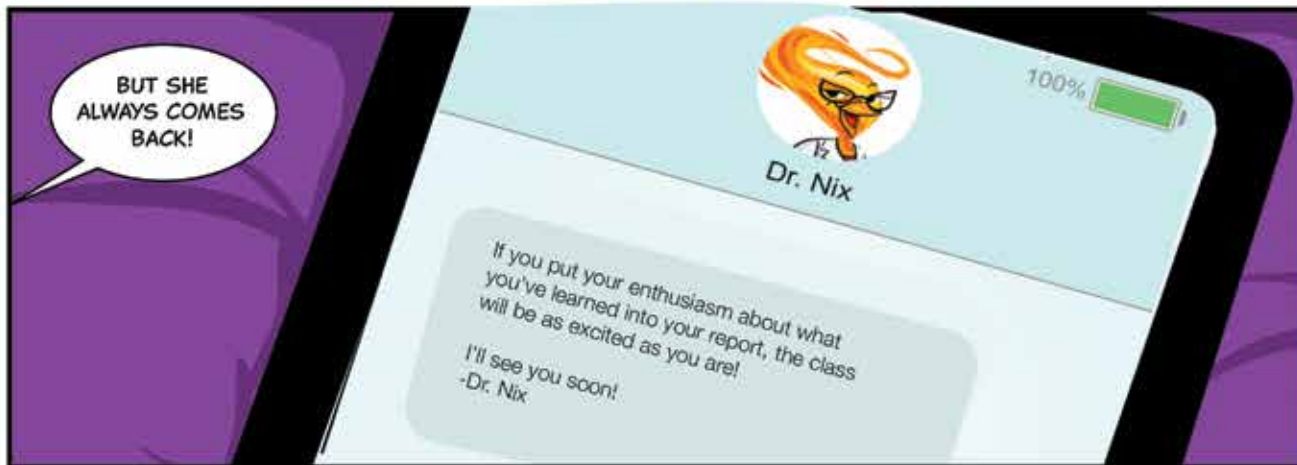
"...ALL THE WAY TO THE LEAVES!"



"STOMATA TAKE IN *CARBON DIOXIDE* FROM THE ATMOSPHERE, ALONG WITH RAIN WATER THE TREE HAS ABSORBED THROUGH THE ROOTS AND LEAVES."







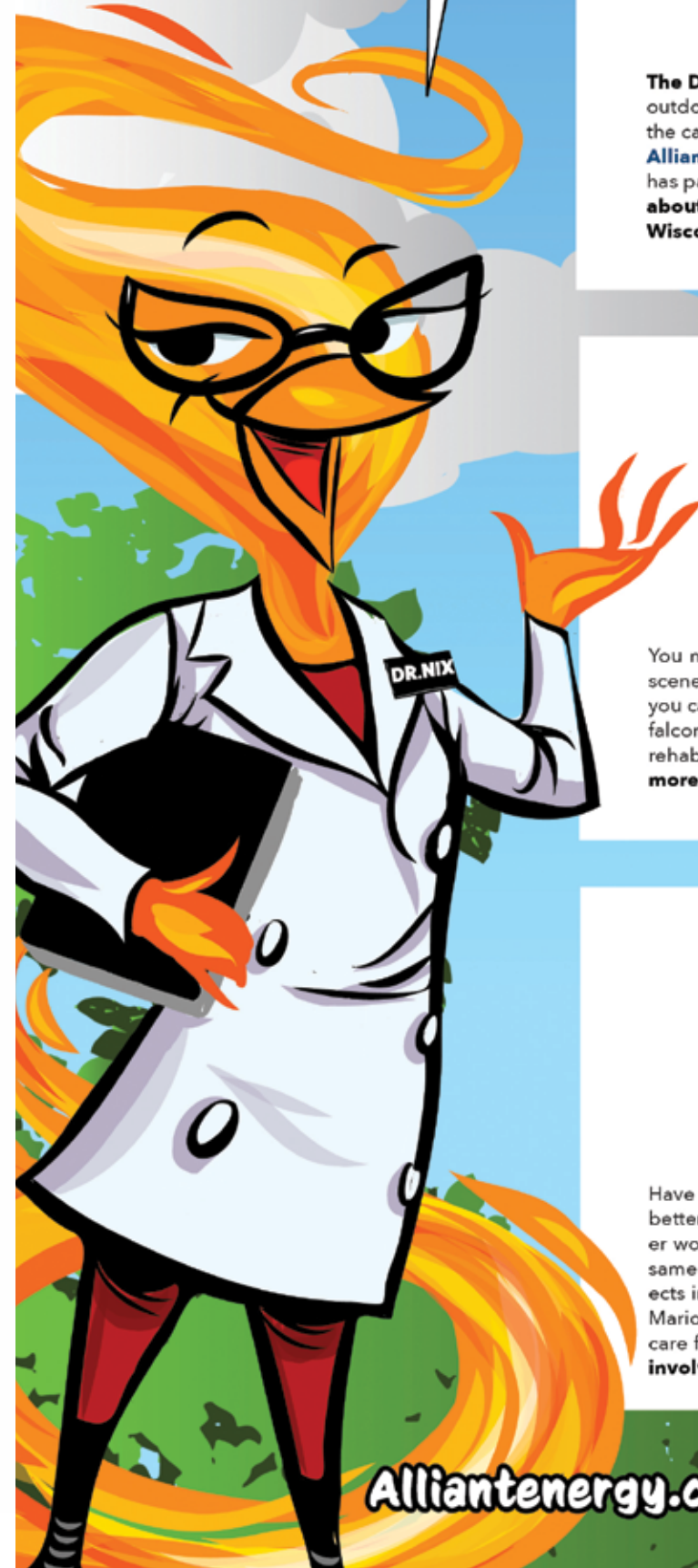




THANK YOU TO OUR PARTNERS WHO ARE PLANTING TREES AND SUPPORTING ECOSYSTEMS IN IOWA AND WISCONSIN. TOGETHER, WE'RE BUILDING STRONGER, HEALTHIER COMMUNITIES!



The Department of Natural Resources (DNR) is dedicated to preserving our beautiful outdoor spaces through efforts that range from the conservation of state parks to the careful management of our wildlife populations and the health of our waterways. Alliant Energy shares this concern for the forests, wildlife and the environment, and so has partnered with the DNR in Iowa and Wisconsin on reforestation efforts. Learn more about the DNR's work in Iowa at <https://www.iowadnr.gov/> and in Wisconsin at <https://dnr.wisconsin.gov/>.



You might not ride raindrops with your own Dr. Nix in real life, but you can still visit a scene from the *Power Chronicles*. At Hoo's Woods Raptor Center in Milton, Wisconsin, you can talk with one of the graphic novel's characters and meet eagles, hawks, owls, falcons and vultures. Dianne Moller created the center in 1998 to rescue and rehabilitate injured raptors, and to educate the public about wildlife and habitat. Learn more about Hoo's Woods Raptor Center at hooswoods.org.



TREES FOREVER
Planting a better tomorrow™

Have you been inspired to plant trees in your community? Trees Forever plants for a better tomorrow and invites the community to join in. Alliant Energy and Trees Forever work together on the One Million Trees Community Tree Planting program - the same program that gives Akilah her grant - to fund and implement tree-planting projects in various communities throughout Iowa and Wisconsin. Trees Forever is based in Marion, Iowa, and creates cutting-edge programs and innovative practices to plant and care for trees and the environment. Learn more about its work and find ways to get involved at treesforever.org.

Alliantenergy.com/powerchronicles

"If you wish to be happy for a year, plant a garden.
If you wish to be happy for a lifetime, plant a tree."

- Jim Morris



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