

Kat Kid Adventure

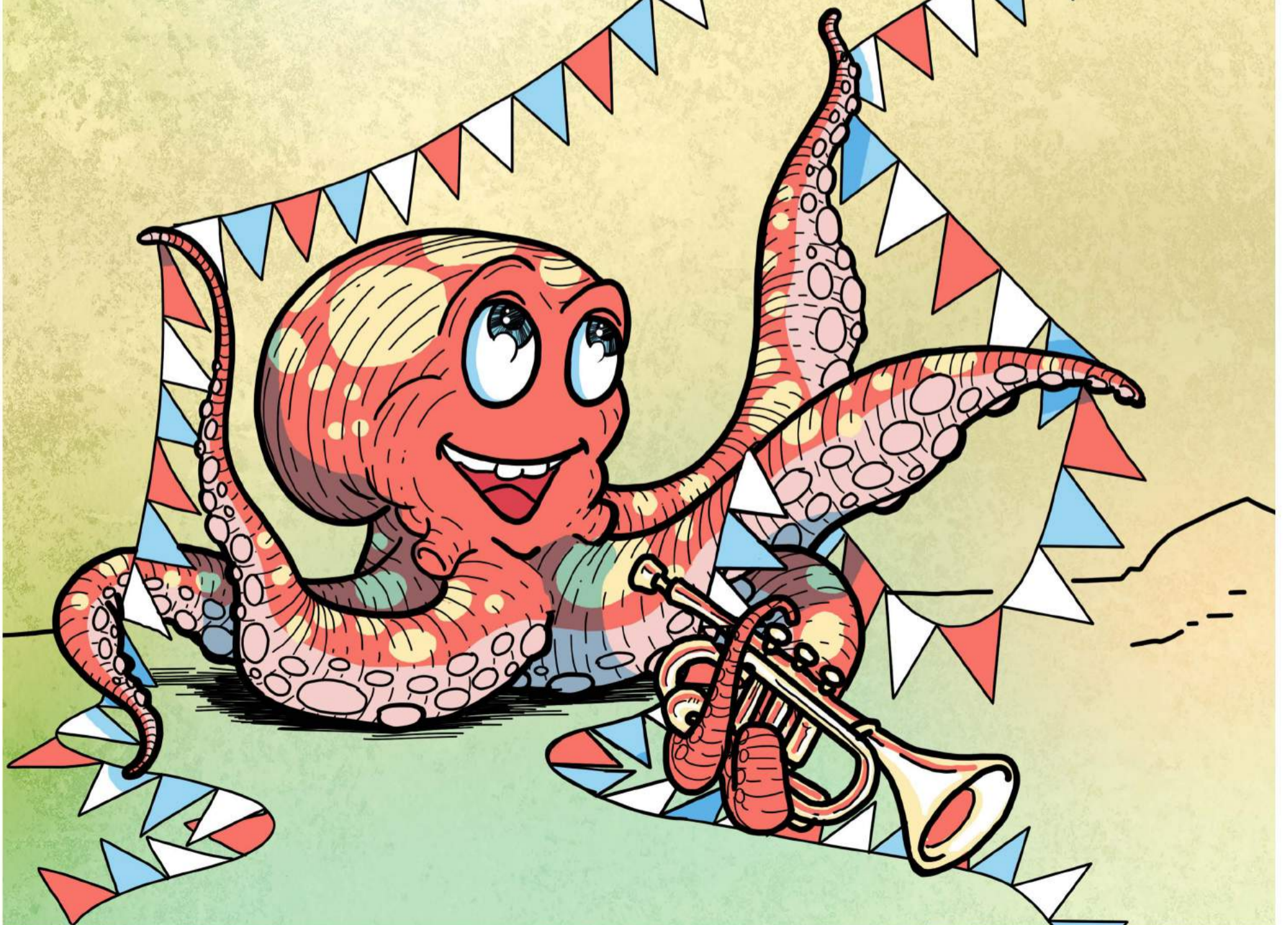
Post Eco News for
Eco Heroes

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YIPPEE YA!
YIPPEE YAY!
IT'S TIME FOR
EARTH DAY!



APRIL 22 is EARTH DAY, but, erm... What exactly are we celebrating?



Rachel Carson sparked a new grassroots global environmental movement, which eventually led to the creation of the **Environmental Protection Agency**.



4th grade students are eligible for a **FREE** pass to more than 2,000 of the country's parks and natural treasures.

The best part is they get to bring a car full of friends and family along to explore! Learn more!

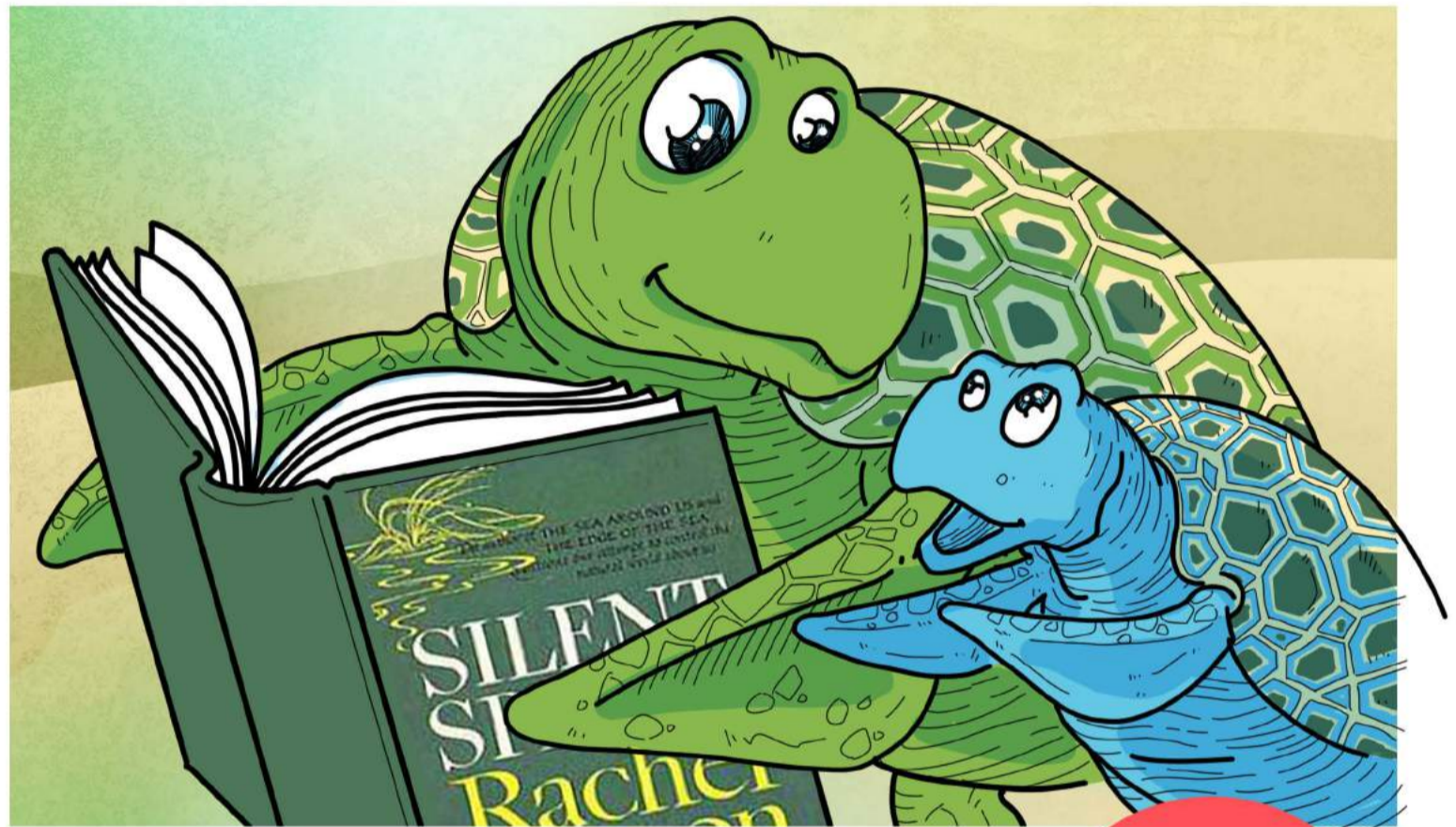


Ready to be an Eco-Hero? Discover how you can join the Flip the Switch Challenge and start conserving our planet's natural resources.

Visit:



Earth Day is an annual celebration highlighting the need to protect the environment! But was it always a celebration? Did people jump and shout? Were there cakes? A party? With games? So many questions, and we need answers. So, let's go back to 1962. That's the year the smart environmentalist, author and marine biologist **RACHEL CARSON**, often considered the 'mother' of the environmental movement, published her book called **SILENT SPRING**.



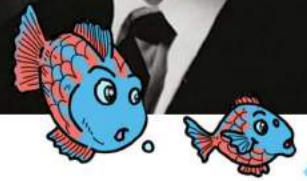
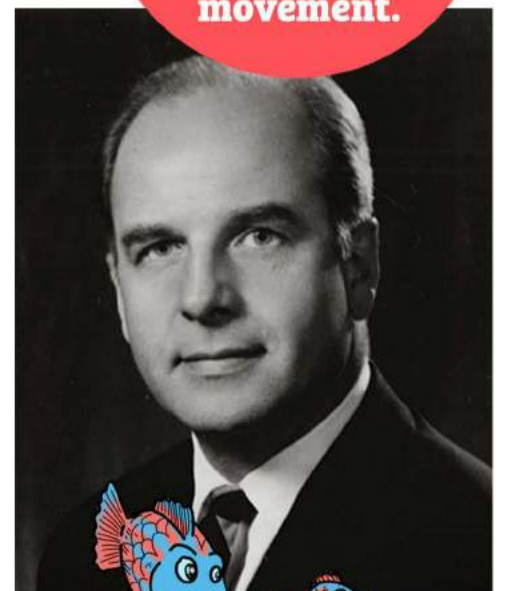
This best-selling book sparked the environmental movement and exposed the harmful effect that pesticides were having on the environment. Before this not many in the public worried about environmental problems and conservation of nature. Carson's research inspired the creation of important environmental laws like the Clean Water Act.

When you see something going wrong, and you stand up for it, that's when you start a movement.

But then in 1969, things got worse. An oil spill happened in Santa Barbara, California and a fire started on Ohio's Cuyahoga River because it was so polluted. Simultaneously, the anti-Vietnam war movement was growing in the country. Inspired by the anti-war protests across the country, Wisconsin Senator **GAYLORD NELSON** decided to take a stand. He invited college students to join teach-ins to demonstrate against the damage to the environment. After recognizing the potential to inspire more people, he announced **APRIL 22, 1970** as the first **EARTH DAY!** A day when everyday citizens would learn about and show their support for environmental protection.

An estimated 20 MILLION Americans turned up to fight for the environment!

There you go - that's worth celebrating! Because this proves that if you believe in something, you'd be surprised how many more are out there just like you. And when you kick start something meaningful, it takes a life of its own.



THE GLAS-GLOW CLIMATE PACT

The planet needs us. And we need more than one day in the year to put thoughts into action. On November 13th 2021, officials from 197 countries came together and agreed on a new deal, known as the Glasgow Climate Pact, aimed at holding off dangerous climate change.

To the world it was the Glasgow Climate Pact, but we're calling it GLAS-GLOW because even though we have a long way to go,

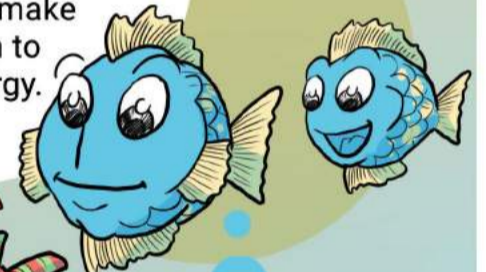
EVERY POSITIVE ACTION MAKES THE PLANET SHINE!



40+ countries pledged to end the use of coal. Burning coal to generate power is the single biggest contribution to climate change!



Countries pledged to significantly increase money to help developing countries cope with the effects of climate change and make the switch to clean energy.



140+ countries pledged to reach net-zero emissions.

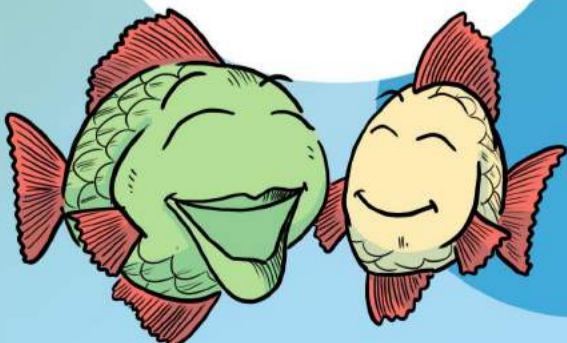


Zero emission vehicles! 30+ countries and several automotive companies agreed that by 2040 that's all they'll sell!

130+ countries, including Brazil, home to the Amazon Rainforest, pledged to stop deforestation by 2030. These countries have 90% of the world's forest!

Largest turnout of everyday citizens! From parents and grandparents to students and teachers, citizens marched the streets to rally government leaders to do more.

And it isn't just the Glasgow Climate Pact where actions are being taken... **FLIP THE PAGE** to see what's happening around the world.



THERE'S SOMETHING HA

A conservation program that revived the Gray wolf species and restored an ENTIRE ecosystem? Gray wolves roamed the **U.S.** for half a million years until they were hunted to near extinction. In 1995, to revive their population, 31 wolves were relocated from Canada to Yellowstone National Park. Today, we have more than 6,000 Gray wolves! These wolves not only keep the deer and elk populations in check, but also provide food for animals like grizzly bears and coyotes. How cool is that?!

Europe is on its way to becoming carbon That's when you absorb the same amount that you release into the air. **Sweden, Fin** already sourcing more than 40% of their renewable sources. And to speed up the energy, **Spain** just passed a new climate permits for coal, gas and oil mining!

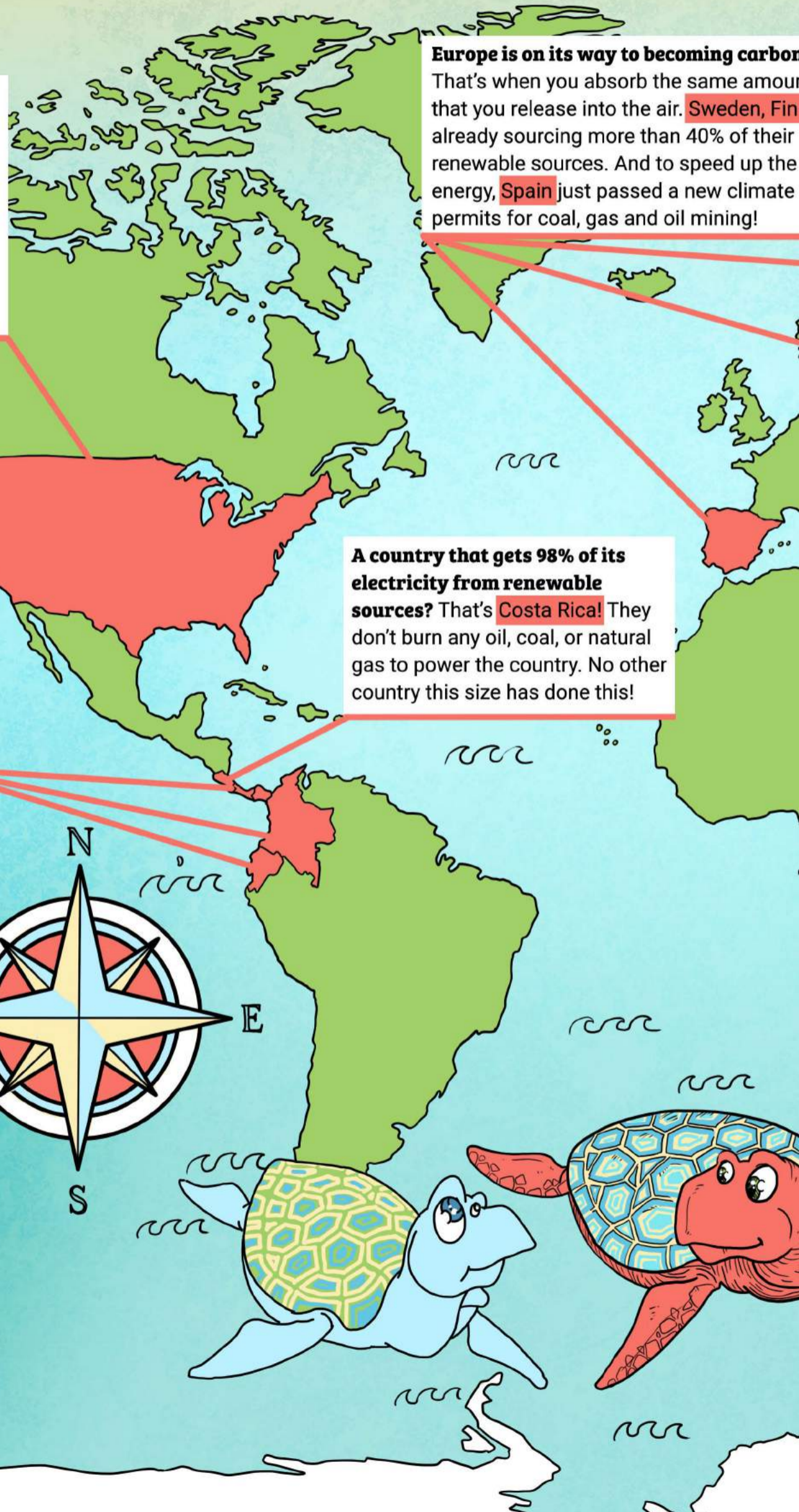
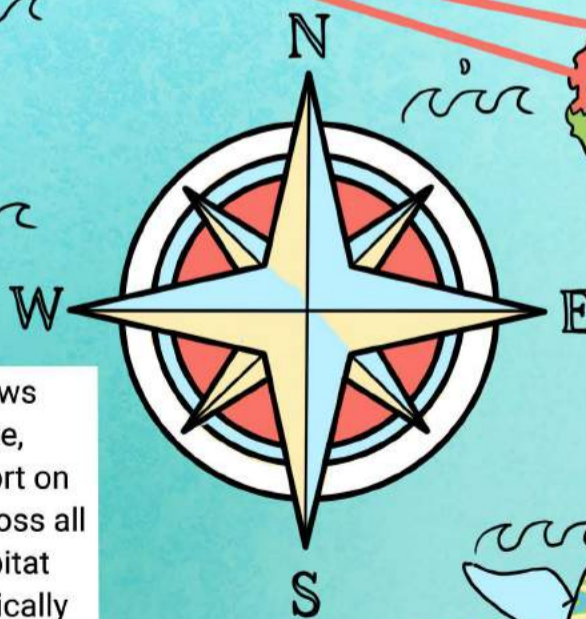
A marine reserve to protect the biodiversity and migratory routes for rays, sharks and turtles! Latin American countries, **Panama, Ecuador, Colombia and Costa Rica** are joining their marine reserves to create an interconnected fishing-free corridor covering more than 200,000 square miles! Yesss! Together we can do so much more!

A country that gets 98% of its electricity from renewable sources? That's **Costa Rica!** They don't burn any oil, coal, or natural gas to power the country. No other country this size has done this!

First 100% solar powered nation in the world? That's **Tokelau**, a small chain of islands in the South Pacific Ocean with a population of 1,500 people.

How can we protect whales? A new report shows the way. After tracking 1,000 whales via satellite, scientists just published a comprehensive report on whale migrations and the threats they face across all **oceans.** Plastic pollution, industrial fishing, habitat loss and climate change, all combined, dramatically impact the whales' long migratory journey!

Fun fact alert: Whales play an important role in maintaining ocean health and global climate. One great whale captures the same amount of carbon as thousands of trees! Animals and nature have so many hidden benefits to humans, don't you think?



APPENING EVERYWHERE

Carbon neutral by 2050!
Iceland and Latvia are
transitioning to clean
energy from
transition to clean
law that bans new

First ever vertical forest home that houses 500 people and 5,000 trees? That's in **China**. It's estimated that each year, the vertical forest will absorb around 22 tons of carbon dioxide while emitting approximately 11 tons of oxygen.

China is the #1 emitter of greenhouse gasses in the world – but is also the biggest investor in renewable energy, with more wind and solar energy infrastructure than any other nation!

First country in the world to be "carbon negative"? That's the heavily forested Himalayan kingdom of **Bhutan**. This means it absorbs more greenhouse gas emission each year than it produces! High-five to Bhutan!!

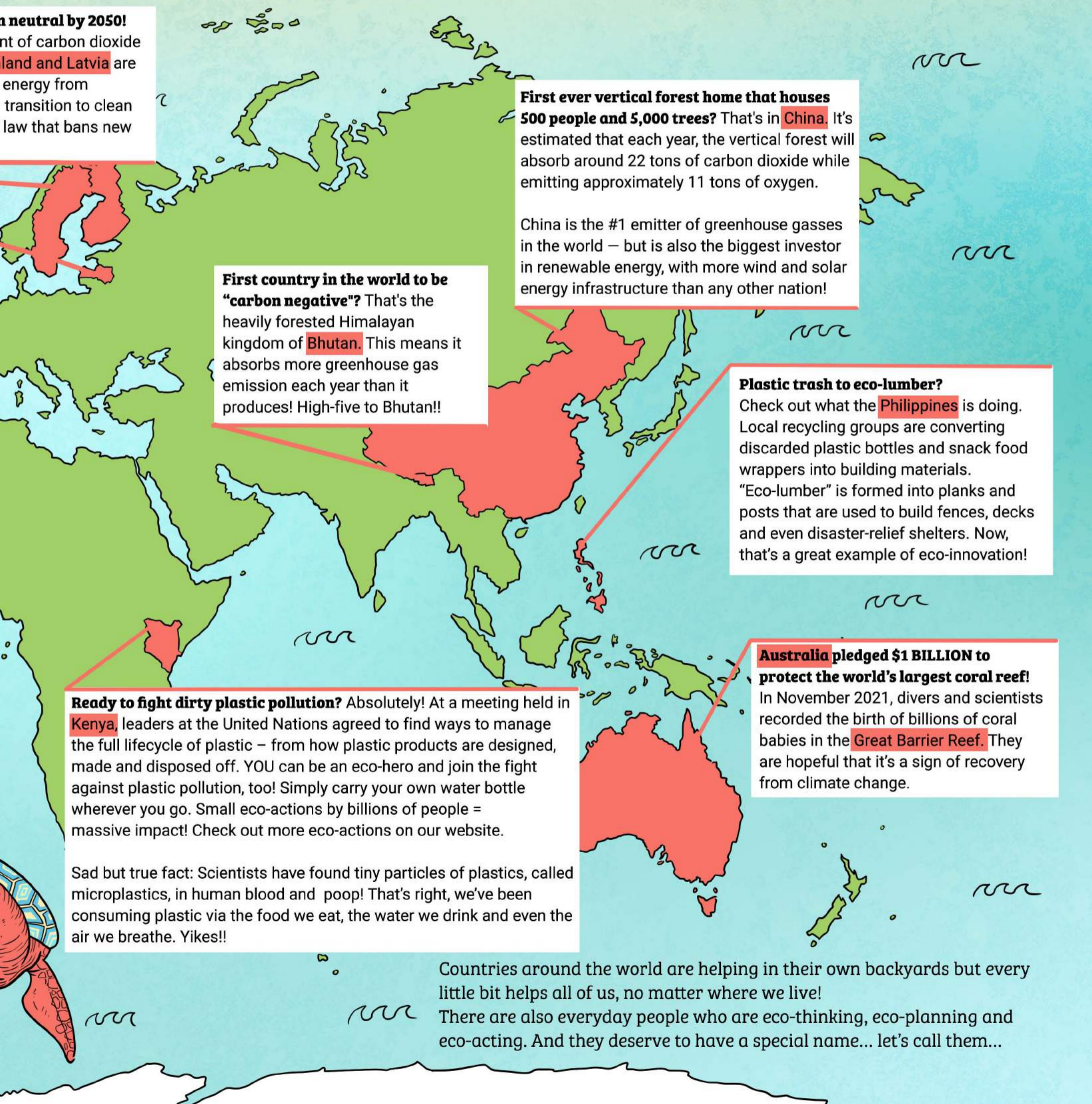
Plastic trash to eco-lumber?
Check out what the **Philippines** is doing. Local recycling groups are converting discarded plastic bottles and snack food wrappers into building materials. "Eco-lumber" is formed into planks and posts that are used to build fences, decks and even disaster-relief shelters. Now, that's a great example of eco-innovation!

Ready to fight dirty plastic pollution? Absolutely! At a meeting held in **Kenya**, leaders at the United Nations agreed to find ways to manage the full lifecycle of plastic – from how plastic products are designed, made and disposed off. YOU can be an eco-hero and join the fight against plastic pollution, too! Simply carry your own water bottle wherever you go. Small eco-actions by billions of people = massive impact! Check out more eco-actions on our website.

Sad but true fact: Scientists have found tiny particles of plastics, called microplastics, in human blood and poop! That's right, we've been consuming plastic via the food we eat, the water we drink and even the air we breathe. Yikes!!

Australia pledged \$1 BILLION to protect the world's largest coral reef!
In November 2021, divers and scientists recorded the birth of billions of coral babies in the **Great Barrier Reef**. They are hopeful that it's a sign of recovery from climate change.

Countries around the world are helping in their own backyards but every little bit helps all of us, no matter where we live!
There are also everyday people who are eco-thinking, eco-planning and eco-acting. And they deserve to have a special name... let's call them...



ECO HEROES FROM AROUND THE WORLD

Meet Vinisha Umashankar

It is quite common in India to get clothes ironed on street corners by ironing vendors who use an iron box, heated by charcoal. As we know, charcoal isn't good for the environment. In 2019, when she was only 12, Vinisha observed the problem, and she had an idea as bright as the sun!

She designed a solar-powered cart to heat an iron! And BOOM - the IRON-MAX was born - a mobile ironing cart totally powered by the sun! For the innovation, she has won state, national and international awards - Dr. A.P.J. Abdul Kalam IGNITE Award in 2019 (India), Children's Climate Prize in 2020 (Sweden) and Tamil Nadu Rural Innovator Award in 2021 (India). She was also the youngest and only school student among the 15 finalists from more than 750 nominees for the inaugural Earthshot Prize in 2021.



Meet Cash Daniels

First off, how cool is that name?! Anyhoo, 12-year old Cash spends time every week picking up trash from a river in Chattanooga, Tennessee.

With the help of other teens, they've cleaned up one ton of aluminum cans - that's nearly 1000 cans a week for a WHOLE YEAR! What?! And in January 2022, he and his best friend started their own club: THE CLEANUP KIDS.

Their goal this year is to motivate kids around the world to pick up one MILLION pounds of trash! What?! What?! Oh, and he was also 2021 TIME Kid of the Year finalist.



Meet Katie Rueff

Katie started her eco-journey by planting and caring for trees with a local tree-planting organization.

Then she noticed how little most of her buddies knew about climate change, so she took her eco-enthusiasm and rallied a bunch of them to start the CLOUD PROJECT.

The goal of which is to inspire and empower the next generation of eco heroes - LIKE YOU!

The climate crisis may seem like a big deal, but with our collective positive energy and eco-enthusiasm (don't worry that word will grow on you) we are all powerful enough to make a difference.



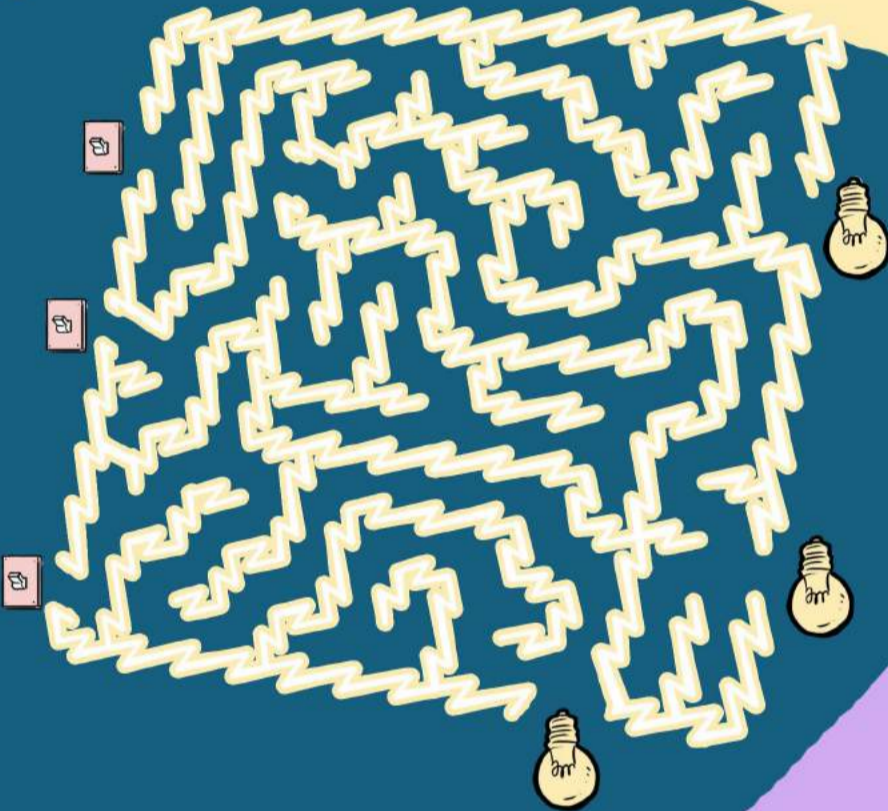
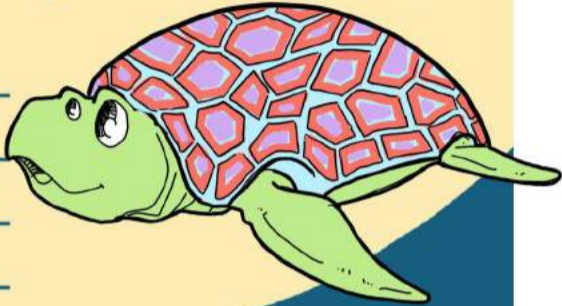
LET THE ADVENTURE BEGIN!

Activity 1 BE AN ENERGY SAVER

Did you know that YOU can be an eco hero by simply flipping a switch or unplugging unused electronics? That's right, reducing the amount of electricity you use is one of the easiest ways to save natural resources and create a healthier planet for all!

Unscramble the letters to reveal everyday appliances and electronics that you should turn off or unplug when not in use.

- NAF _____
- TOTASER _____
- STATTHEROM _____
- ONSILEETVI _____



Activity 2 ELECTRO-MAZE

What's one thing we use EVERY SINGLE DAY? The lights, of course! Be sure to flip the lights at home and in school when you leave the room! Small eco-actions, done daily, have big benefits for the planet.

Activity 3 ELECTRO-TRIVIA

Fossil fuels, such as coal and oil, are the #1 source of energy in the world. Burning fossil fuels is also the #1 cause of global warming. **Do you know what fossil fuels are made of?**

True or false? Electricity made from moving water, sunlight, Earth's heat and wind, is less polluting and better for the planet and everyone.

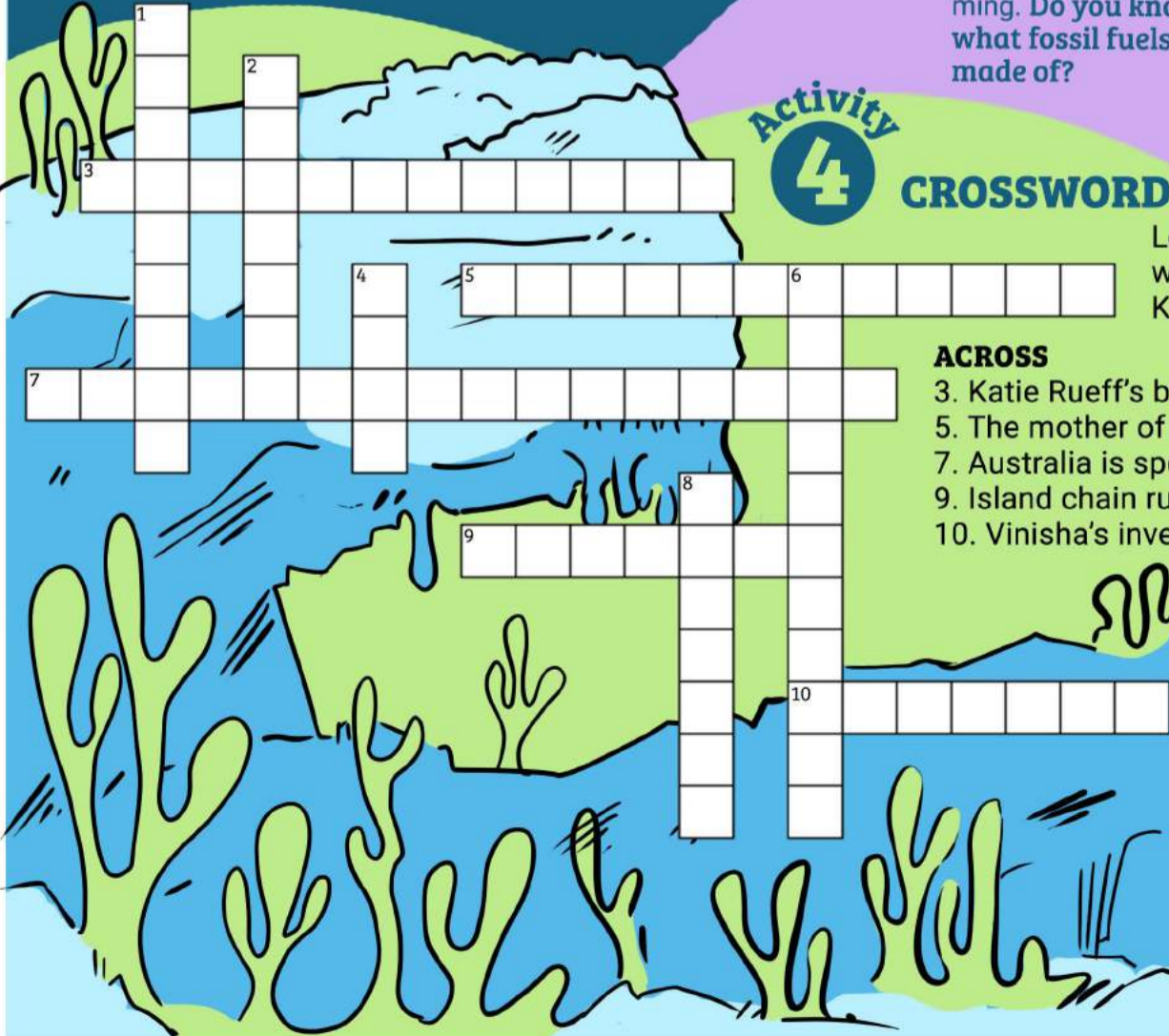
Which marine animal can produce strong electric shocks of 500 volts or more for both self-defense and hunting?

Activity 4 CROSSWORDS

Let's see if you've been paying attention to all that we've been saying. All the answers are in this Kat Kid Adventure Post.

- ACROSS**
- 3. Katie Rueff's brainchild
 - 5. The mother of the environmental movement
 - 7. Australia is spending \$1 billion to help this recover
 - 9. Island chain running completely on solar energy
 - 10. Vinisha's invention

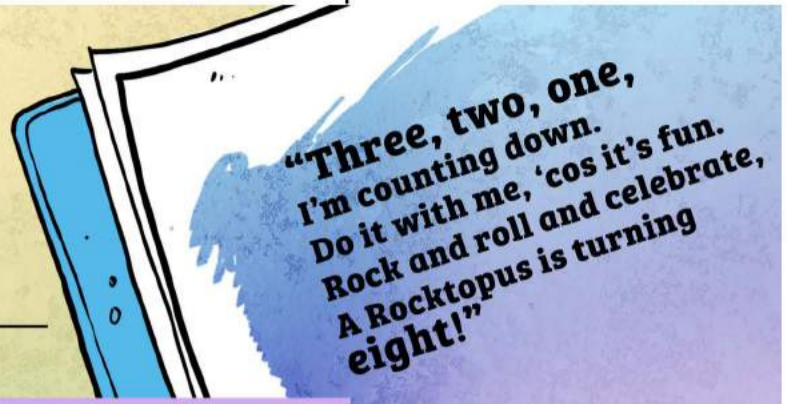
- DOWN**
- 1. Turn plastic waste into building materials, the Filipino way
 - 2. Octo plays this to celebrate Earth Day
 - 4. Burning ____ is the single biggest contribution to climate change
 - 6. Cash Daniel's club
 - 8. The city where world leaders met to sign the Climate Pact



LET'S HOST A GREEN PARTY!



Octo the octopus woke up feeling a quiver of excitement. His clever arms, each of which had their own little brain, couldn't keep still. His skin was changing color as he belted out a tune.



"Three, two, one, I'm counting down. Do it with me, 'cos it's fun. Rock and roll and celebrate, A Rocktopus is turning eight!"

Do you want to know what Octo's friends did to celebrate his Big Big Eight? Head to your local bookstore or visit us online this summer to find out! Octo can't wait to tell you about his absolutely octopussly awesome party!!!

Activity 5 GREEN PARTY WORD SEARCH

Find the ingredients that will help Octo throw an amazing eco-friendly birthday party.

- Finger food
- Paper bags
- Cloth bunting
- Enamel cups
- Pasta straws
- Edible utensils
- Leaf confetti
- Bamboo plates
- Homemade treats

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Pages 7-8 SOLUTIONS

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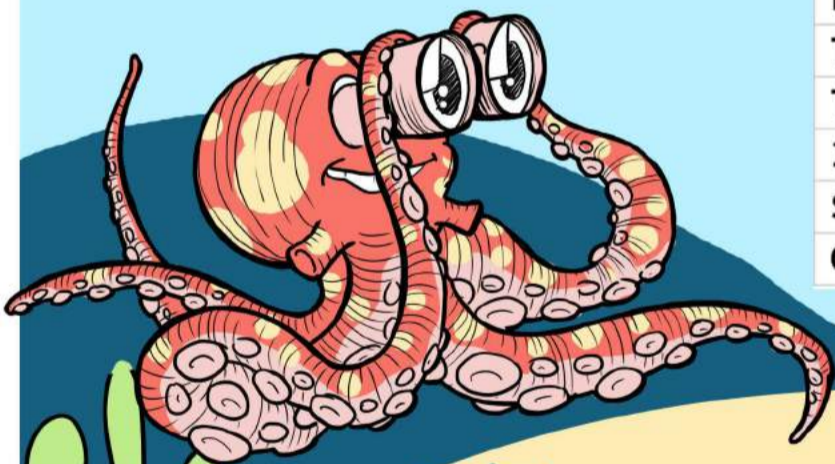
Activity 5:
 1. Long time no seal (see) - 2. It waves - 3. Kiwi
 4. In the riverbank, of course!

Activity 4:
 ACROSS
 3. CloudProject
 5. Rache/Carson
 7. GreatBarrierReef
 9. Tokelau
 10. IronMax
 DOWN
 1. EcoLumber
 2. Trumpet
 4. Coal
 6. CleanUpKids
 8. Glasgow

Activity 3:
 Answer: Remains of dead animals and plants buried deep inside the earth's surface for MANY years. These non-renewable resources are limited in supply and need to be left underground.
 Answer: True. The sun never stops shining and the wind doesn't stop blowing! These renewable energy sources are plenty and can be easily replenished.
 Answer: Electric eels. They are born with specialized cells known as electrocytes, which are capable of producing an enormous electrical charge.



Activity 1:
 1. Fan - 2. Toaster - 3. Thermostat - 4. Television
Activity 2:



Activity 6 ECO-RIDDLES

1. What did the beach say when the tide came in?

2. How can you tell the ocean is friendly?

3. I am a fruit, an animal, and a person, what am I?

4. Where do fish keep their money?

THROW A GREEN PARTY!

This Earth Day, learn to throw a plastic-free party with the Cloud Project. Go to katkidadventure.com to book a Green Party workshop and for more fun games and puzzles.