

YOUNG HEROES



"LEARNING
ABOUT CLIMATE CHANGE"

WELCOME!

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FORWARD FROM PACJA

Greetings from the Pan African Climate Justice Alliance (PACJA), the biggest Civil Society Consortium in Africa of more than 1000 organizations from 51 Countries across the continent that believes in people and their inclusion to take care of our planet in a just and fair way. Our mission is to make our planet healthier and happier for everyone, including you!

I am excited to contribute to the children's Climate Book. This is a fantastic initiative to educate and inspire our young minds about the importance of taking care of our planet. Our planet is like a big, beautiful home that we all share. Just like how we take care of our rooms and toys, we need to take care of Earth too! We call this taking care of the environment or looking after nature.

Do you know that the air we breathe, the water we drink, the trees, animals, and plants around us all need our help to stay healthy? Sometimes, things we do, like using too much plastic or wasting water, can make our Earth sad. But guess what? We can make a big difference by doing small things! Simple acts like turning off lights when not needed, planting trees, using less plastic, and recycling our toys and papers can help our planet so much!

Imagine a world with clean air, oceans full of happy fish, and forests bustling with animals. That's the world we want for you and for everyone! So, let's team up together! Let's learn more about our planet, share our ideas, and work as a team to protect Earth. Remember, even little hands like yours can do amazing things for our environment.

Thank you for being our superheroes in making the world a better, greener place. I can't wait to see all the incredible things you'll do!

With lots of excitement and hope,

Dr. Mithika Mwenda
Executive Director



FORWARD FROM SDGs KENYA FORUM

Dear Readers,

Welcome to the captivating pages of an extraordinary children's book dedicated to the pivotal cause of Sustainable Development Goal 13 - Climate Action. I'm excited to support a remarkable initiative that perfectly aligns with our commitment to nurturing a sustainable future: the creation of a children's book centered around SDG 13. Beyond being a powerful educational tool, this project stands as a testament to our dedication to cultivating environmentally conscious and socially responsible global citizens.

In a world where the impacts of climate change are increasingly evident, instilling a sense of environmental responsibility in our children and teens is imperative. Within these vibrant pages, we look at the importance of protecting our planet and encouraging sustainable practices, as we aim to sow the seeds of environmental stewardship early on for our young ones.

As we embark on this creative endeavor, my gratitude extends to everyone involved in bringing this vision to life. Your dedication to the causes of sustainability and education is truly commendable, and I am confident that this illustration book will serve as a valuable resource in our ongoing mission to create positive change. I extend my heartfelt appreciation to the dedicated team behind this initiative. Crafting a narrative that is both informative and engaging is no small feat, and your commitment to this endeavor is commendable. To the parents, educators, and caregivers reading these words, your role in nurturing environmentally conscious values in our youth is indispensable.

Thank you for joining us on this journey. Together, let us pave the way for a brighter, greener, and more sustainable future.

Warm regards,

Florence Syevuo

Executive Director



CHAPTER 1

INTRODUCTION

CLIMATE CHANGE

GLOBAL WARMING

GREENHOUSE GASES

CLIMATE JUSTICE



What is CLIMATE CHANGE?

It is the long-term Changes in weather patterns in a certain place. Climate Change is different from Weather which is the short-term changes. Climate Change is most times caused by Global warming.



What is GLOBAL WARMING?

**Means the Earth is getting warmer over time, and
the biggest contributor to global warming is
Greenhouse Gases.**



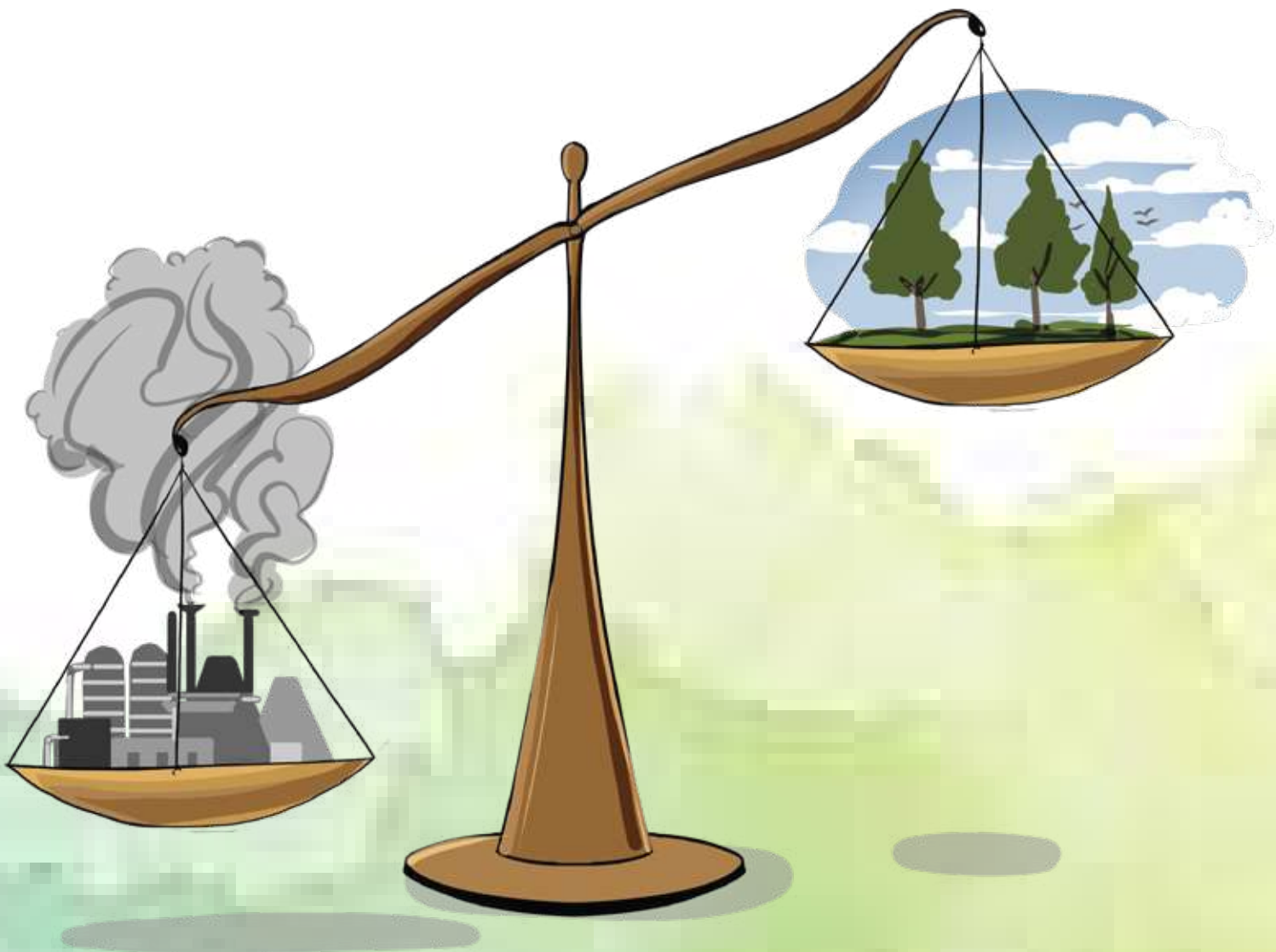
What is GREENHOUSE GASES?

Means a blanket for our planet, they keep the Earth warm when there are too many or too much of it, which is not a good thing, some examples of these gases are carbon dioxide, methane, nitrous oxide, and other special gases.



What is CLIMATE JUSTICE?

Means everyone has the right to a future where they can thrive, surrounded by a planet that's healthy and full of possibilities. We need to ensure everyone, from every corner of the Earth, gets a fair and equal shot at a safe, happy, and healthy life.



CHAPTER 2

THE EFFECTS OF CLIMATE CHANGE

(Air - Land - Water)

HEALTH IMPACTS

AGRICULTURE IMPACTS

FOREST IMPACTS

WATER RESOURCE IMPACTS

IMPACTS ON COASTAL AREAS

SPECIES & NATURAL AREAS



Health Impacts

i). WEATHER RELATED DEATHS

Refers to fatalities directly caused by or strongly linked to extreme weather conditions. Which include but not limited to hurricanes, heatwaves, floods, tornadoes, and cold spells. Such occurrences can pose severe threats to human safety and well-being.



Health Impacts

ii). INFECTIOUS DISEASES

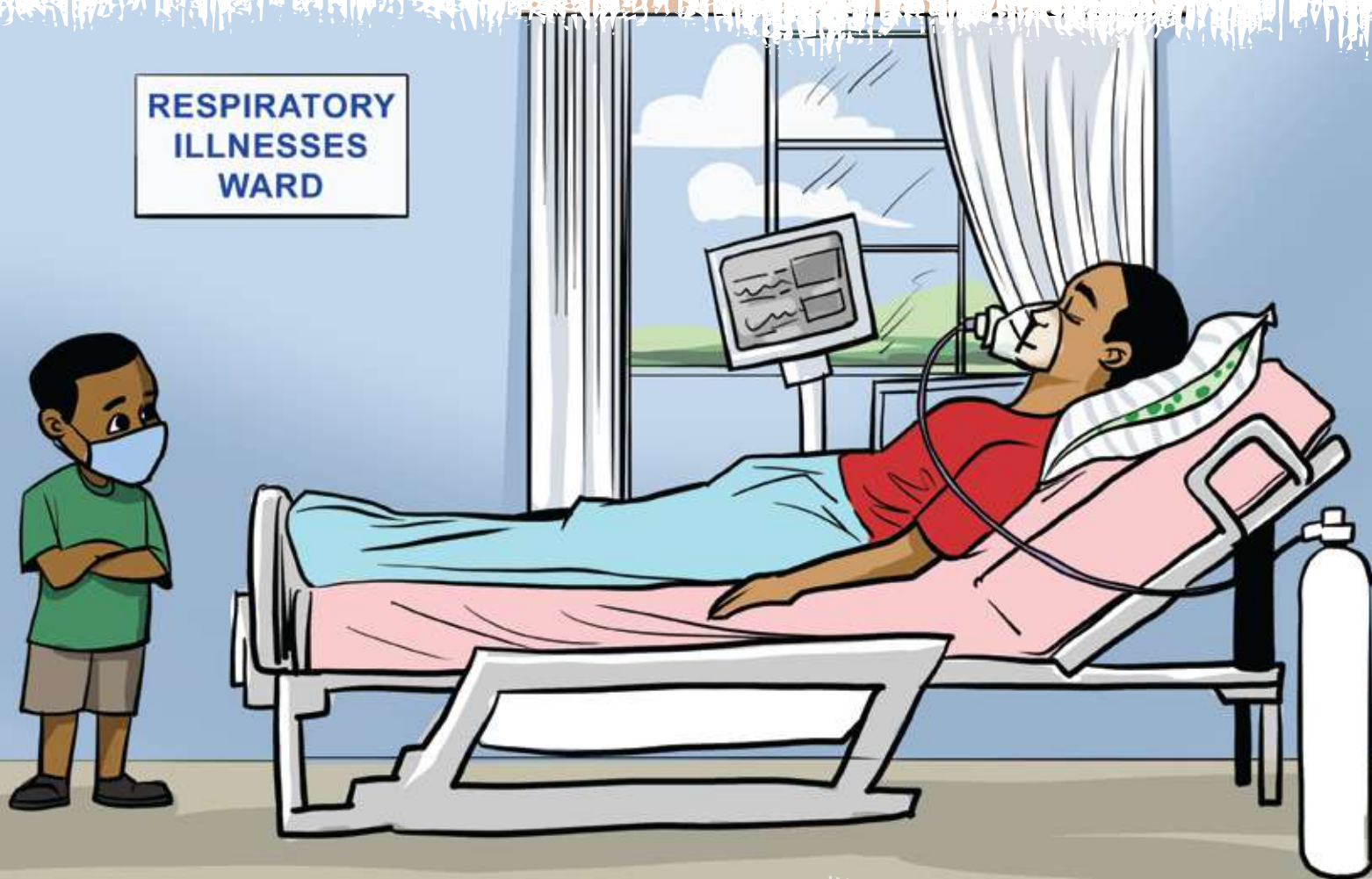
These are illnesses caused by pathogenic micro-organisms, such as bacteria, viruses, fungi, or parasites, that can spread through direct or indirect contact with infected individuals, contaminated surfaces, air, water, animal, environment, or vectors like mosquitoes or ticks.



Health Impacts

iii). AIR QUALITY - RESPIRATORY ILLNESSES

Air Quality is the measure of the cleanliness and purity of the air we breathe, depending on the presence of pollutants and particles. Poor air quality may cause Respiratory Illnesses that affects our lungs and respiratory system, leading to difficulties in breathing and other related symptoms.



Agriculture Impacts

i). LOW CROP YIELD

It is the reduced quantity of crops harvested from a given area, typically resulting from factors such as unfavorable weather conditions, insufficient nutrients, or pest infestations, impacting agricultural productivity.



Agriculture Impacts

ii). HIGH IRRIGATION DEMANDS

It is the increased need for water in agricultural practices to support crop growth, often arising from factors like dry climates, soil conditions, or crop types that demand substantial watering for best cultivation.



Forest Impacts

CHANGE IN FOREST COMPOSITION

It is the transformation or alteration in the types and distribution of plant species within a forest ecosystem over time, influenced by various factors such as climate shifts, human activities like deforestation, or natural disturbances, impacting the overall biodiversity and ecological balance.



Water Resource Impacts

i). CHANGES IN WATER SUPPLY

It is the variations in the availability, distribution, or quality of water resources within a specific region or system, often influenced by factors like climate fluctuations, human consumption patterns, or environmental conditions, impacting the overall accessibility and sustainability of water sources.



Water Resource Impacts

ii). WATER QUALITY

It is the measure of the purity and safety of water for various uses, determined by the presence of contaminants, pollutants, and factors such as clarity and taste, with high water quality indicating cleanliness and suitability for consumption and other purposes.



**THAT WATER
CAUSED YOUR
STOMACH ACHE.**

Water Resource Impacts

iii). INCREASED COMPETITION FOR WATER

It is the heightened demand and rivalry among various users or sectors for access to limited water resources, driven by factors such as population growth, industrial needs, and agricultural requirements, resulting in challenges to ensure equitable and sustainable water allocation.



Impacts on Coastal Areas

EROSION OF BEACHES

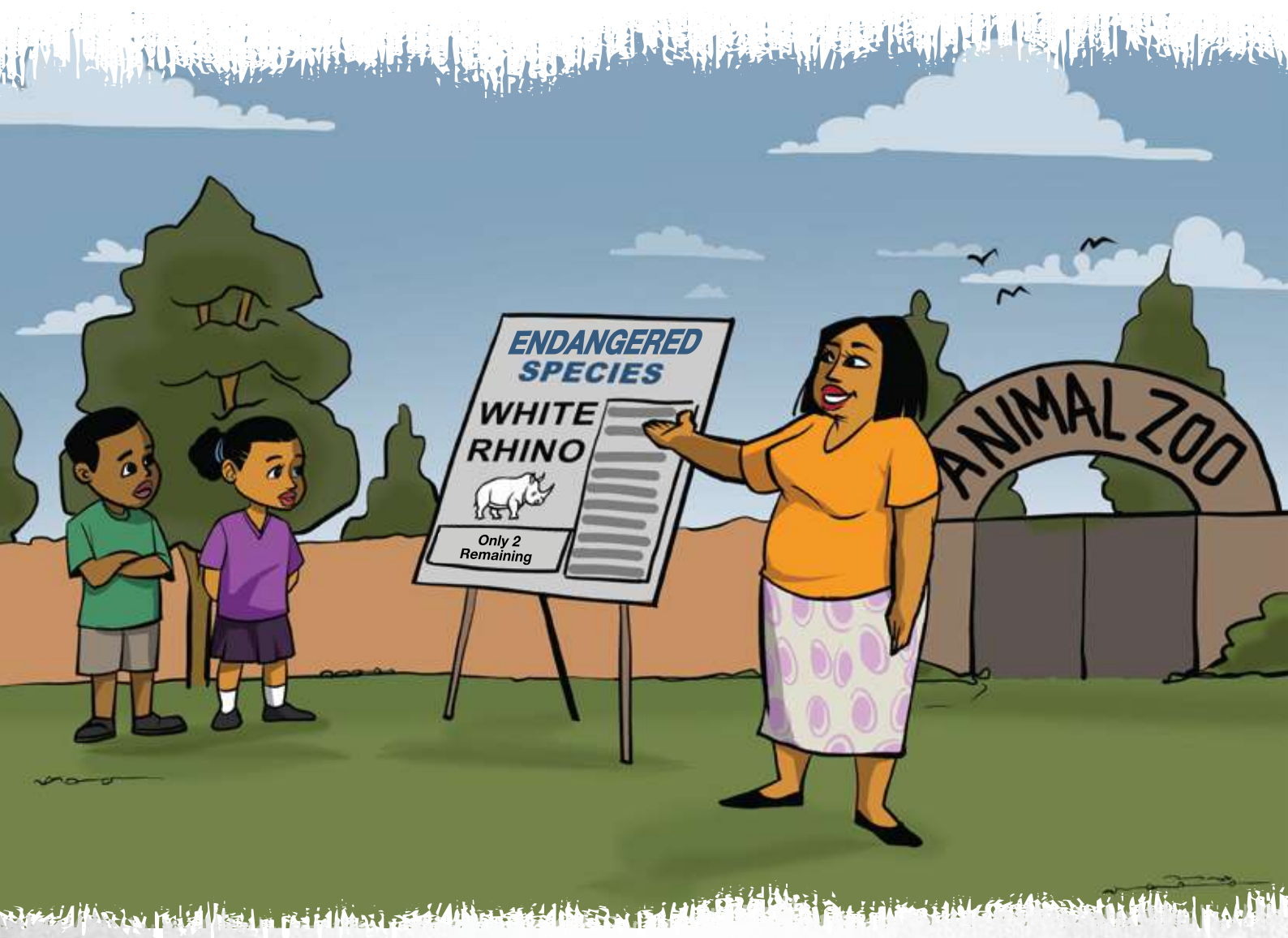
It is the gradual wearing away and loss of coastal land, specifically beaches, due to natural processes like wave action, tides, and storms, or human activities, leading to a reduction in the size and integrity of the shoreline.



Species & Natural Areas

LOSS OF HABITAT AND SPECIES

It is the decline or disappearance of specific environments and the living organisms within them, often caused by factors such as human development, deforestation, or environmental degradation, leading to a reduction in biodiversity and the potential extinction of certain species.



CHAPTER 3

ACTIONS TO COMBAT CLIMATE CHANGE

CONSERVE THE ENVIRONMENT

CAMPAIGNING AGAINST CLIMATE CHANGE

LEARNING POSITIVE MORALS &

RESPONSIBLE BEHAVIOURS

SUPPORT RENEWABLE ENERGY

COMMUNITY INITIATIVES

Conserve the Environment

i). **CLEANING AND LITTER CLEAN UP**

It is the proactive and organized efforts to remove litter and debris from public spaces or natural environments, promoting cleanliness, aesthetics, and environmental health through community-driven initiatives and responsible waste management.



Conserve the Environment

ii). PLANTING TREES

It is the intentional practice of planting trees in a designated area, commonly carried out for environmental, ecological, or aesthetic reasons, seeks to enhance biodiversity, improve air quality, prevent soil erosion, and foster overall ecosystem health.



Conserve the Environment

iii). **REDUCE - REUSE - RECYCLE**

It is a holistic approach to sustainable waste disposal and management, advocating for minimizing consumption (Reduce), prolonging the life of products through alternative uses (Reuse), and processing materials into new products (Recycle) to reduce environmental impact and promote resource conservation.



Campaigning Against Climate Change

i). PEER EDUCATION

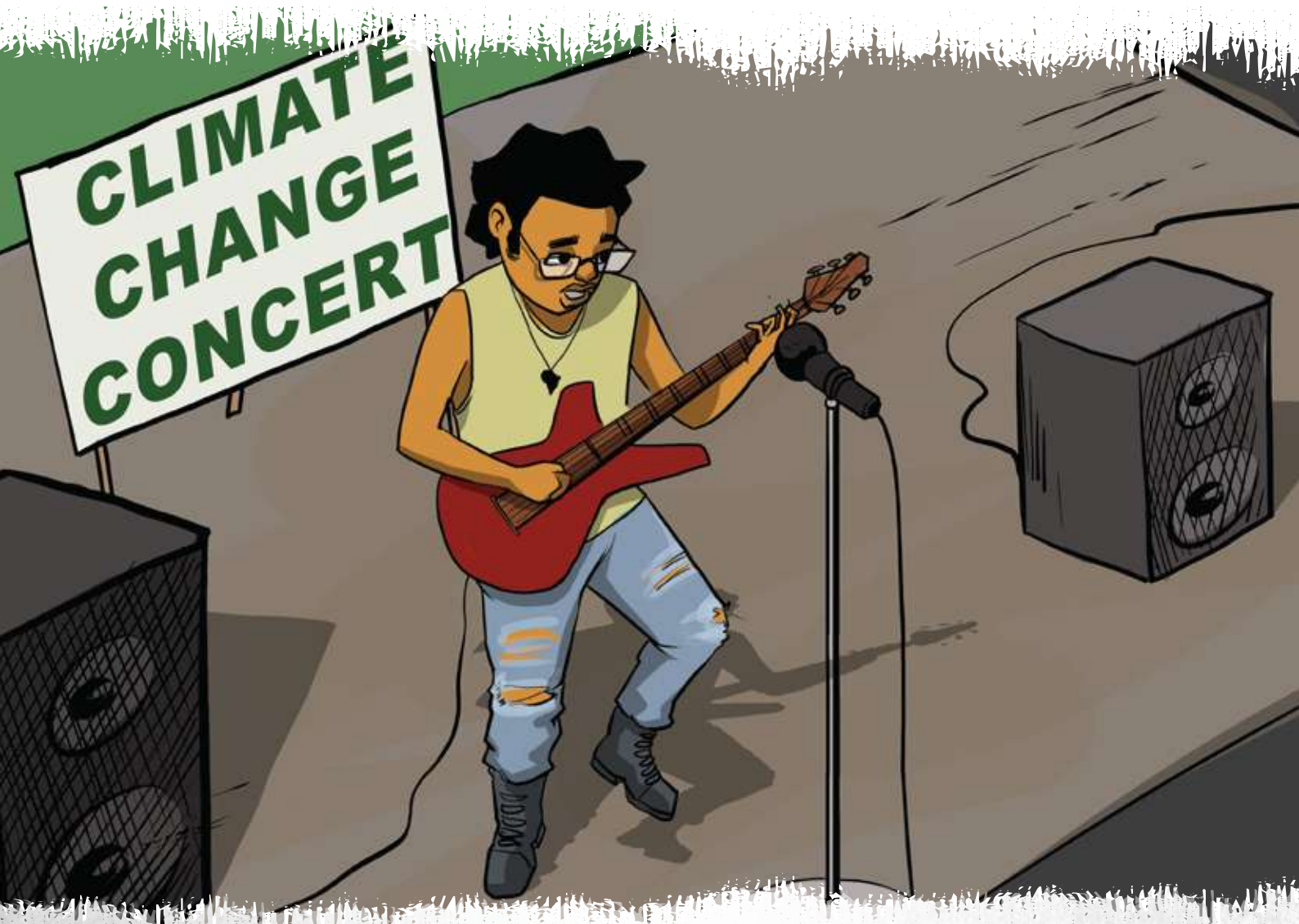
Helping each other understand and tackle climate change by talking with friends. We learn, share ideas, and take action to make a positive difference for our planet.



Campaigning Against Climate Change

ii). ARTISTIC EXPRESSION

Using creativity to spread awareness and inspire action against climate change. Expressing important messages through art to engage and mobilize people for a sustainable future.



Campaigning Against Climate Change

iii). ENVIRONMENTAL CLUBS

Joining forces with like-minded individuals in environmental clubs to campaign against climate change. Collaborating on initiatives, sharing knowledge, and taking collective action for a greener and more sustainable future.



Learning Positive Morals and Responsible Behaviors

i). RESPONSIBLE WASTE DISPOSAL

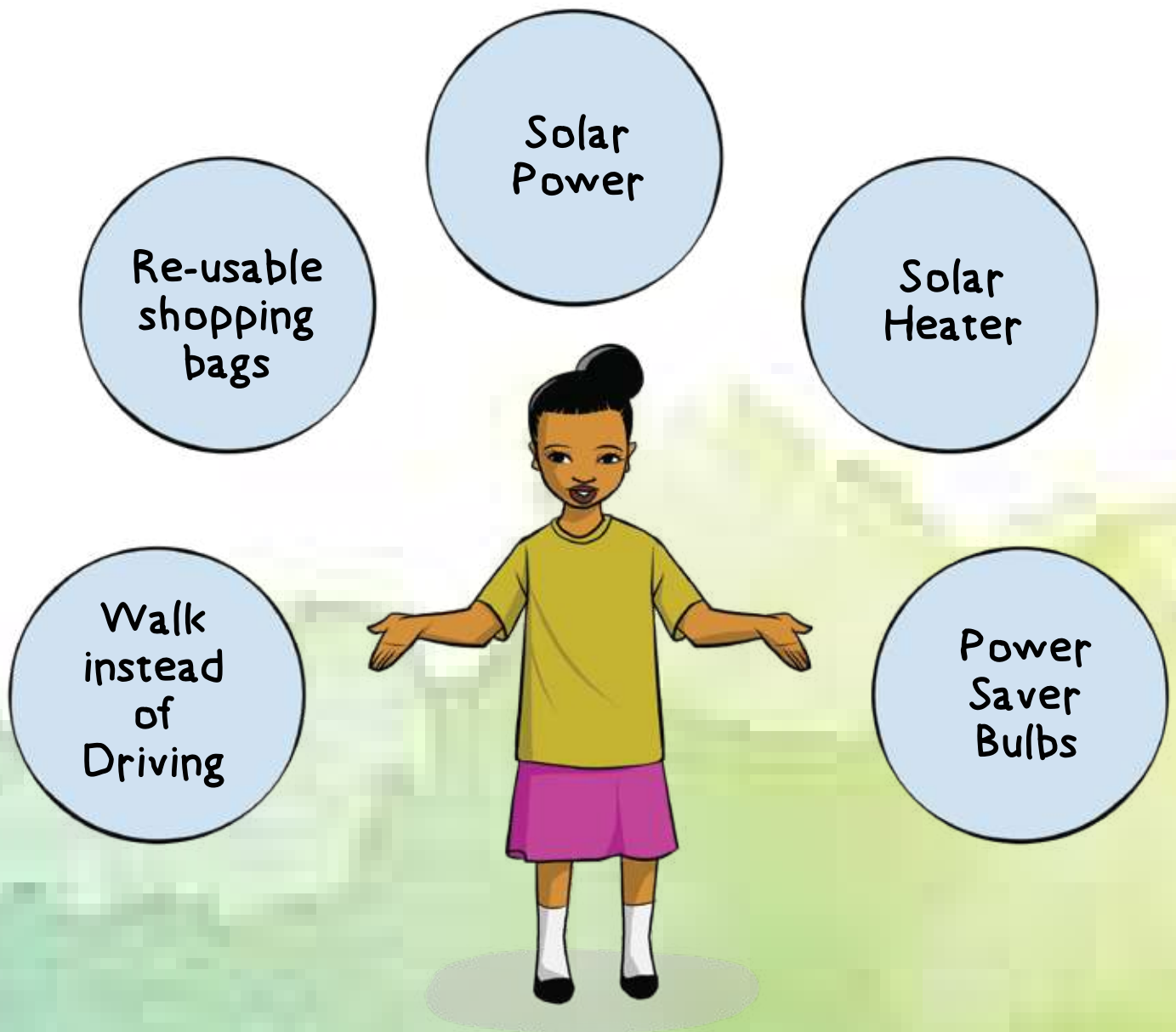
Let's embrace a green lifestyle by prioritizing eco-friendly practices like recycling, composting, and responsible waste disposal. Let's work together to reduce our impact on ecosystems and safeguard human health. By promoting sustainability and conserving resources, we can make a positive difference for the planet.



Learning Positive Morals and Responsible Behaviors

ii). CULTIVATE A CULTURE OF RESPONSIBILITY

It is the small changes that leads to a big impact!



Learning Positive Morals and Responsible Behaviors

iii). SUSTAINABLE TRANSPORTATION

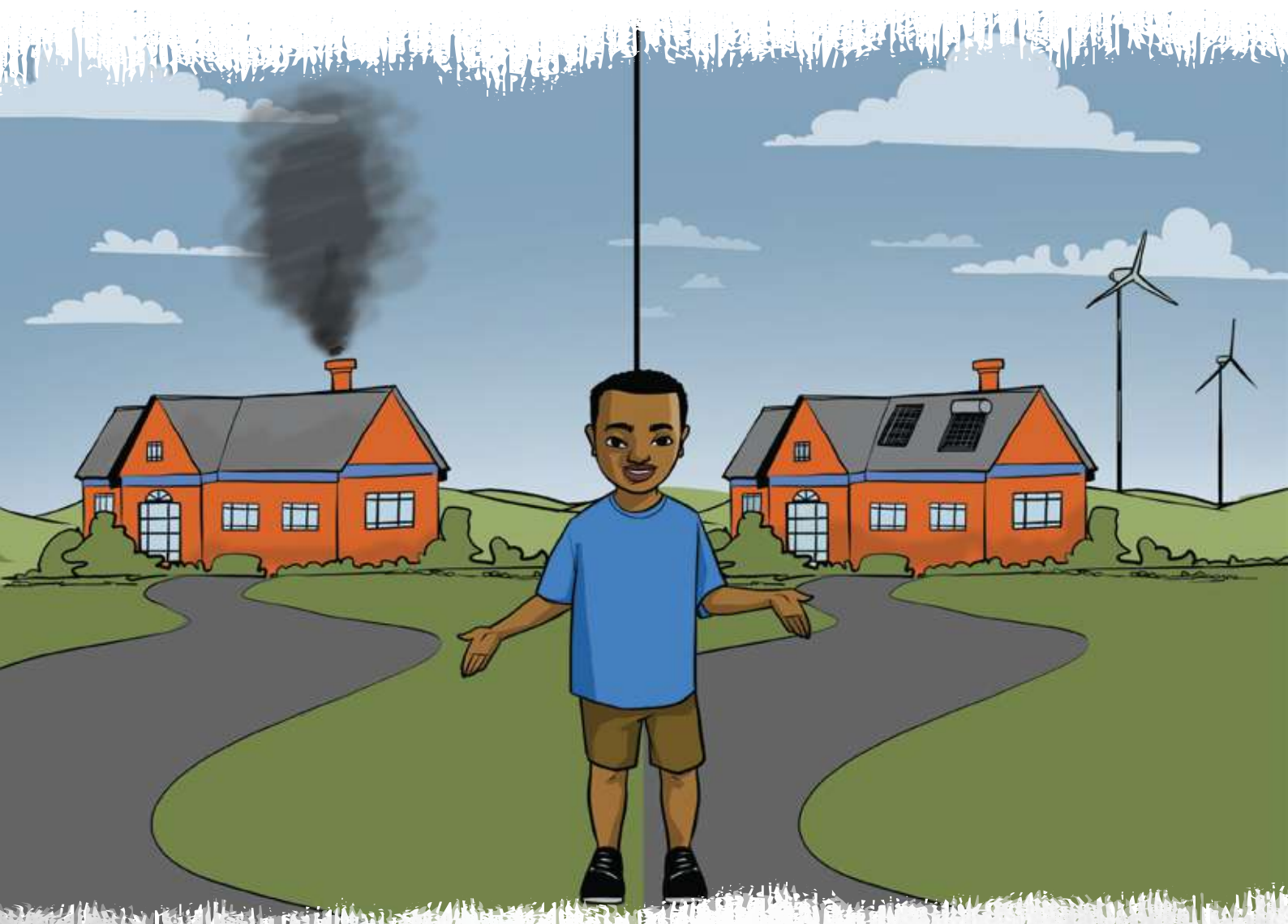
Let's adopt modes of transportation that prioritize environmental, social, and economic considerations. Emphasizing energy efficiency, reduced emissions, and minimized environmental impact, these methods aim to support long-term ecological balance and the well-being of communities.



Support Renewable Energy

i). **ADVOCATE**

Let's advocate for and actively support the transition to renewable energy sources such as solar and wind power in our homes.

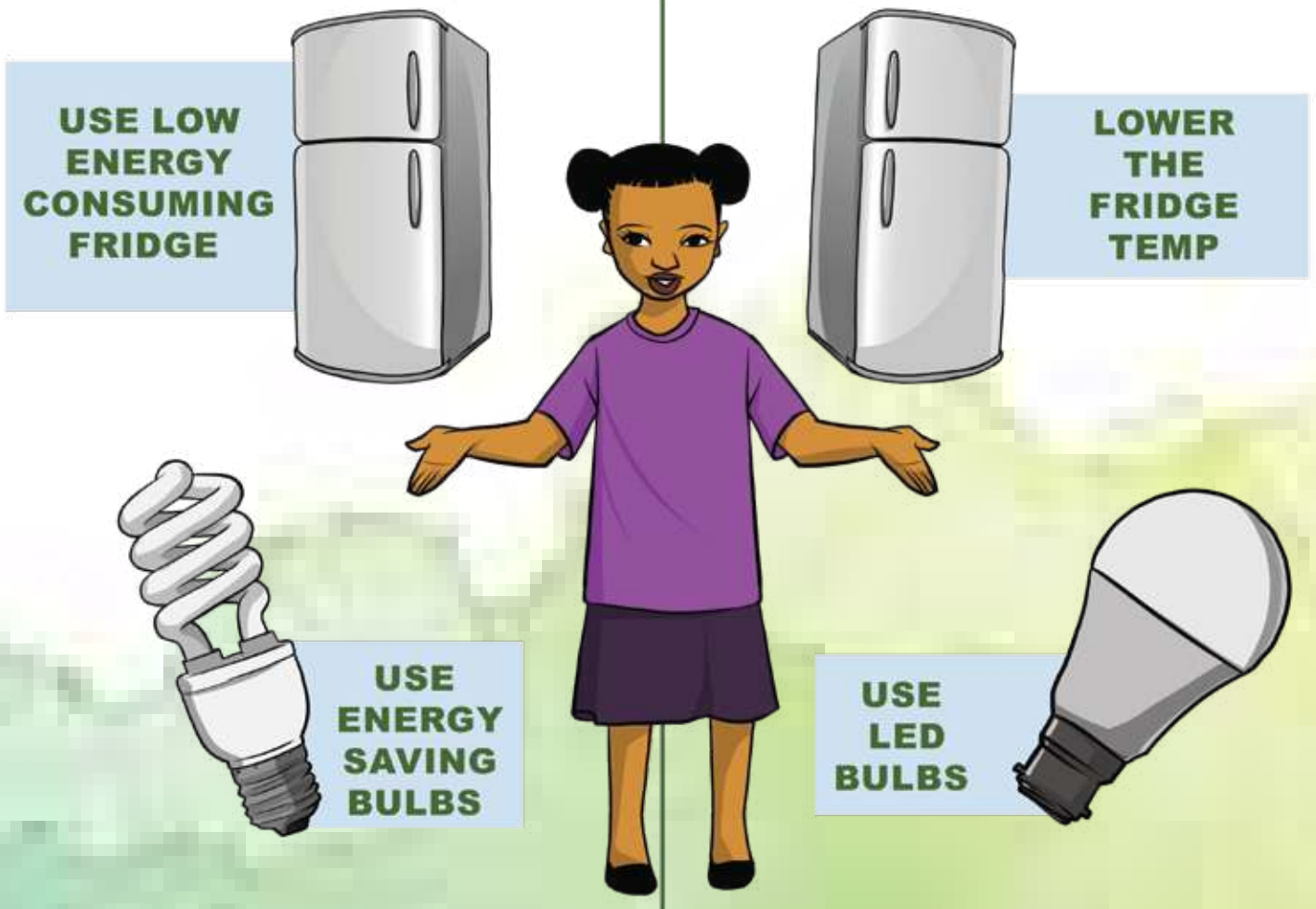


Support Renewable Energy

ii). PROMOTE

Let's promote energy efficiency and conservation in our homes and communities.

SAVE ENERGY



COMMUNITY INITIATIVES

It is important to have locally-driven efforts and projects aimed at addressing and mitigating the impacts of climate change within a community, often involving sustainable practices, education, and collaboration to foster resilience and reduce the overall carbon footprint.



CHAPTER 4

TAKE-AWAYS

CLIMATE HEROES

DID YOU KNOW?

PUZZLE

HOMEWORK

CLIMATE HEROES

These remarkable individuals and groups in our community stand out for their exceptional leadership and unwavering commitment in the battle against climate change. They actively engage in raising awareness, implementing sustainable practices, and inspiring positive environmental action, thereby contributing significantly to a more sustainable and resilient future.

Here are some exemplary role models in our community, shining beacons whose efforts on climate change issues provide valuable lessons for us to learn from.



Dr. Mithika Mwenda

"From his school days, Dr. Mwenda has harbored a fervent passion for addressing the injustices of climate change, particularly its impact on the world's less fortunate."

Dr. Mwenda channels his commitment through advocacy, policy influence, direct action (such as tree planting), and engaging with governments, parliamentarians, and the public through his writing."



Prof. Wangari Maathai

“Renowned for her efforts in tree planting, forest conservation, and civic education on climate, Prof. Wangari Maathai stands as an environmental hero. Her impactful contributions have given us the treasures of Karura Forest and Uhuru Park within the City of Nairobi.

In recognition of her outstanding work, Prof. Maathai was awarded the Nobel Prize in 2004, making her the first Black African woman to achieve this prestigious honor.”

Ellyanne Chlystun - Githae Wanjiku

“Ellyanne, a dedicated climate change ambassador, harbors a deep passion for trees. Her journey began in childhood, and now as a teenager, she continues to be a driving force. Beyond her ambassadorial role, Ellyanne also champions climate finance and biodiversity.

Join Ellyanne as a friend and contribute to changing the world by planting more trees.”



DID YOU KNOW?

Trees are superheroes in the fight against climate change. They absorb carbon dioxide, a greenhouse gas that contributes to global warming. Planting more trees and taking care of the ones we have is like giving the Earth a big, leafy hug.

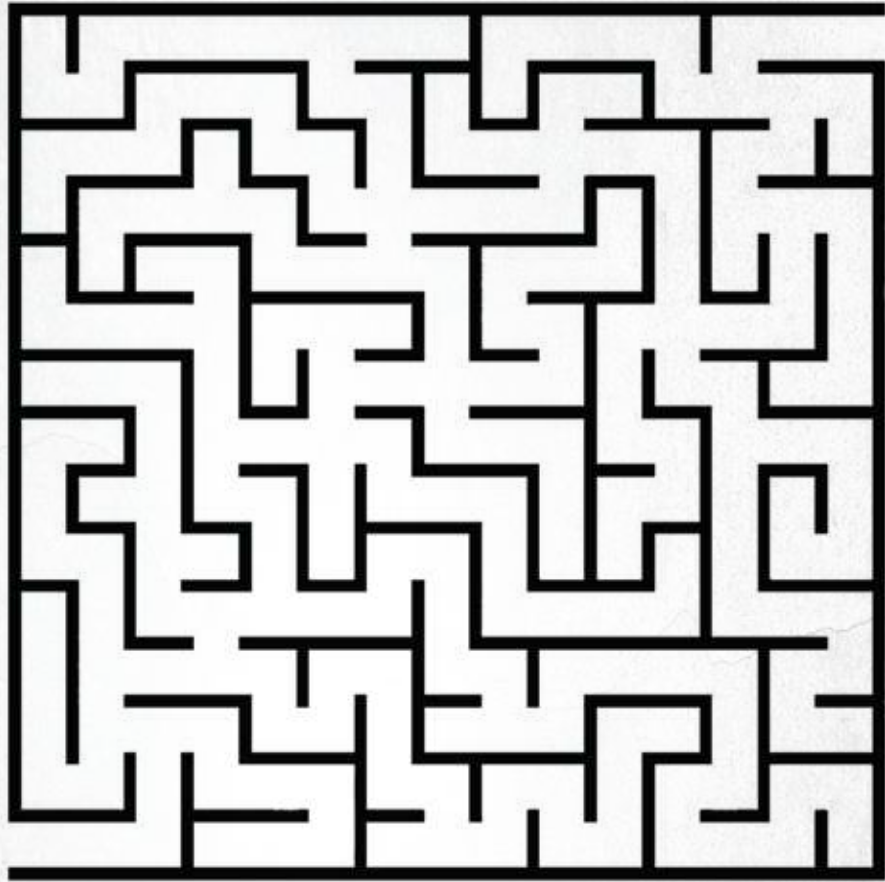


Electric cars are like superheroes for the environment. They produce fewer emissions than traditional cars, helping to reduce air pollution and slow down climate change. So, when you grow up and start driving, consider choosing an electric car!



PUZZLE

WATER



1. Creative Writing Task:

Imagine you are a tree in a rainforest. Write a short story or a poem describing the changes you've witnessed due to climate change and how it has affected the animals and plants around you.

2. Debate Preparation:

Prepare arguments for a debate on whether your school should implement more sustainable practices. Consider topics such as recycling programs, energy-efficient initiatives, or eco-friendly transportation.

HOMework

3. Community Action Plan:

Brainstorm and outline a plan for a community project that addresses climate change. It could be a tree-planting initiative, a recycling program, or an awareness campaign. How can you involve your peers and neighbors in making a positive impact?

CONCLUSION

Hey there, awesome friends!

We have had a blast diving into this cool book about our planet and how to keep it safe. Remember all those fun pages? They showed us that even tiny things we do can make our Earth super happy!

We are like Earth's superheroes, and when we team up, wow, we can do anything! Let's keep learning, sharing ideas, and doing our bit to protect our planet. Together, we will make it sparkly and awesome for everyone, including all the kids yet to come!

Thanks for being part of this amazing adventure for a better, greener world! You rock!



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BOOK DESIGN

We extend our gratitude to the PACJA and SDGs Kenya Forum teams for affording us the opportunity to contribute to the conceptualization of this project. It has been an honor to participate in the creation of a book that holds the potential to positively impact our world through climate change education.

With heartfelt appreciation,

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