

THE ADVENTURES OF

Turtle Club Kids



Let's work to combat climate change!

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We can make changes and combat climate change!



let's all make changes and celebrate

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Turtle Club Kids is produced by
Turtle Island News Publications.
2208 Chiefswood Road, Oshweken,
Ontario, N0A 1M0 **519.445.0868**



Turtle Island News

Welcome to Turtle Club Kids





Remember,
we don't inherit the planet
from our parents,
we borrow it
from our children.

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Understand our changing climate

Here's what climate change does:

Heat waves. When above-normal temperatures go on for a long period of time - this is called a heat wave. As the Earth warms because of climate change, we will experience hotter and more frequent extreme heat waves.

Heavy precipitation. Heat and turbulent air currents lead to heavy downpours which are becoming more common in many locations. Extreme amounts of water overload our sewer systems and flood homes.

Sea-levels rise. Melting of glaciers and ice sheets has caused the sea level to rise about 8 inches. These seas and oceans are now warmer which is also making coastal storms more frequent and damaging. Scientists predict sea levels in the United States alone could rise 1 to 4 feet in the 21st century. This estimate could increase if glaciers in Greenland or Antarctica melt any quicker.

Threats to habitats and animals. As temperatures warm, many plants and animals are migrating to higher elevations or away from the equator. Some animals may have difficulty moving or adapting to new habitats.

Ocean acidification. Extra carbon dioxide in the atmosphere is absorbed by the oceans, making them more

Each of the past four decades has been warmer than the previous one. Rising global temperatures threaten our health, increases the risk of some types of extreme weather, which damages our ecosystems. Oceans warm and polar ice caps melt, sea levels rise and this means flooding along the coasts. It's already happening, and groups like the poor, elderly and other living creatures are especially vulnerable.

acidic. This can make it difficult for corals and microorganisms that form shells to survive, disrupting the food supply for other sea animals.

Wildfires. The number of large wildfires and the length of the wildfire season have been increasing in recent decades. These large fires burn vast amounts of forests and brush. When they are not controlled, wildfires can destroy homes and be deadly.

Drought. When areas of land go without rain for a prolonged period of time plants and animals suffer. Global warming will increase the risk of drought in some regions. Also, warmer temperatures can increase water demand and cause evaporation, stressing water supplies.

How you can help

There are two things we need to do:

The **FIRST** is to reduce the greenhouse gas emissions responsible for climate change. By choosing cleaner ways to power our homes, offices, and cars, and being more efficient and less wasteful, we can produce fewer greenhouse gas emissions.

The **SECOND** is to prepare for life in a changing climate. Our buildings, roads, businesses and all the services they use must withstand the climate changes that we can't avoid. Plan for the future, plants trees and respect the environment.

For more info. visit: www.c2es.org/content/climate-basics-for-kids/



What does Climate change
mean to you?

Scientific Consensus

• The climate science community is made up of researchers from geology, astrophysics, oceanography, atmospheric physics and many other disciplines. Surveys show that 97% or more of these scientists agree that the planet is warming and that human beings are the cause.



What's the difference? Weather vs. Climate

Weather refers to the what's going on in the atmosphere over several minutes up to several days. It includes lots of things we are familiar with – temperature, humidity, rain, snow, wind speeds, and wind direction.

Climate refers to the long-term average (and other statistics) of weather measured over long periods of time (several decades) (10 years = 1 decade).

Here's a simple way to think about it: **Climate is what you expect, but weather is what you get.** Say you were going to visit Florida for a few days in April. You would expect it to be sunny and pleasant, because that's what the climate of Florida is usually like in April. It might turn out to be rainy, or be cloudy, chilly or very hot. All of those are examples of possible weather during those few days.



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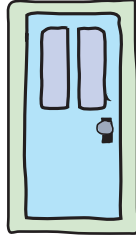


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13 ways to save the Earth FROM CLIMATE CHANGE

1. Close the door

If you see a business with its door wide open in the summer, ask an adult to help you email or talk to an employee about closing it. An open door to an air-conditioned building can let 2.2 tons of carbon dioxide escape over one summer. That's about as much as a car on a 5,000-mile road trip.



2. Used goods are good

Reduce and reuse as much as possible. Factories emit carbon dioxide when making new products. So instead of buying new stuff, fix your appliances and clothes. Good thing holey jeans are back in style!



3. Eat your veggies

Livestock such as cows account for some of Earth's heat-trapping gas emissions. (Yep, it's the cow toots!) Eating more plants cuts down on the need for so much livestock.

4. Use the heel toe express

Walk or bike as much as you can. Biking or walking just one mile a day for a year could save 330 pounds of carbon dioxide - that's the same as planting four trees and letting them grow for 10 years!



5. Slay the monster

"Vampire" appliances suck energy even when turned off. Kill these monsters by unplugging phone and laptop chargers when not in use, and use power strips for lamps and TVs. (Bonus: It'll save your parents money on energy bills!)

6. Dress for the occasion

Wear a warm sweater instead of turning up the heat, and open your windows and turn on a fan instead of blasting the air conditioner.



7. Calculate your impact

Use an online carbon footprint calculator to see how much carbon dioxide your actions release. If you know how you're impacting the planet, you can take steps for change.



8. Season your fruit

Try to eat mostly in season and locally grown fruits and vegetables. This cuts down on the energy used to grow and transport food, which reduces the release of heat trapping gases. Does your take out store use plastic cutlery? Ask an adult to help you talk to the owner about switching to a non-plastic option. Some kinds of cutlery are even edible!



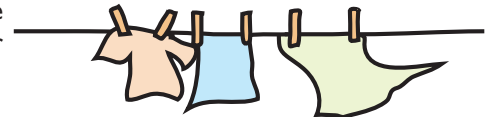
9. Send a letter

Write a letter, do a drawing or postcard, and mail to your mayor, government representative, or even the prime minister asking them to do something about climate change.



10. Knowledge is power

Not everyone understands climate change. Learn the facts and talk to your friends and family. If everyone gets the science, we can work together to find solutions.



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11. Air is free

Hang up your freshly washed clothes to dry. You'll be saving energy by not using the dryer and helping with chores.

12. Help out while away from home

Hang up and reuse your hotel towels instead of washing them after each use. That saves water and energy.

13. Spread the word

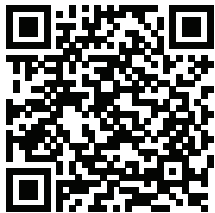
Write a letter to the editor about climate

Planting four trees and letting them grow for 10 years reduces 330 pounds of carbon dioxide in our atmosphere.

change in your local or school newspaper. The more people talk about the issue, the better!



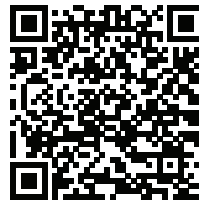
1. Online game "Recycle Roundup"



<https://kids.nationalgeographic.com/games/action/recycle-roundup-new/>

2. Online activity

Planet Protector Personality Quiz
- *whattype are you?*



<https://kids.nationalgeographic.com/explore/nature/save-the-earth-hub/planet-protector-personality-quiz/>

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Next
Edition
August



D.I.Y.

Warm weather is coming and it's time to prepare your garden.

Recycle your toilet paper rolls, it's a great way to start your plants and seedlings. When ready to plant, stick the whole roll in the ground. The roll will decompose naturally.

You can even use egg cartons. The roots will be a little more compact

than the TP rolls but the seedlings will still have enough root space! Carrots are simple to sprout in any container deep enough to accommodate the roots. Starting carrot seeds indoors is an easy way to protect seedlings and get a head start on spring planting.



How To Make Seed Starter Pots Using Toilet Paper Rolls

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Saving the Mother Earth

Climate Change Facts

Records Show...

Weather records from across Canada show that every year since 1998 (that's 20 years ago) has been warmer than the 20th century average.

This means that a whole generation of Canadians has never experienced what most of modern history considered a "normal" Canadian climate.

Mother Earth is heating up

Determining the average temperature of the entire planet is an amazing scientific achievement. The data used to calculate the average comes from a variety of sources. Air temperature is recorded around the world at weather stations and by weather balloons. Ocean temperatures are measured using thousands of buoys and ships. Orbiting satellites continually monitor the ocean and air temperatures all over the world.



Evidence Shows...

Evidence shows that only increased concentrations of greenhouse gases in the atmosphere (specifically carbon dioxide concentrations) can explain Earth's observed warming trend. Greenhouse gases are called that because they effectively act like a greenhouse or a layer of insulation for the Earth: they trap heat and warm the planet.

The cause: human activity

Our planet's climate is influenced by many natural factors, including the Earth's tilt, its orbit around the sun, large volcanic eruptions, and changing ocean currents. Because we know a lot about how these forces work, we also know that none of them explain the sudden, recent warming of the globe.

<https://climateatlas.ca/climate-change-basics>

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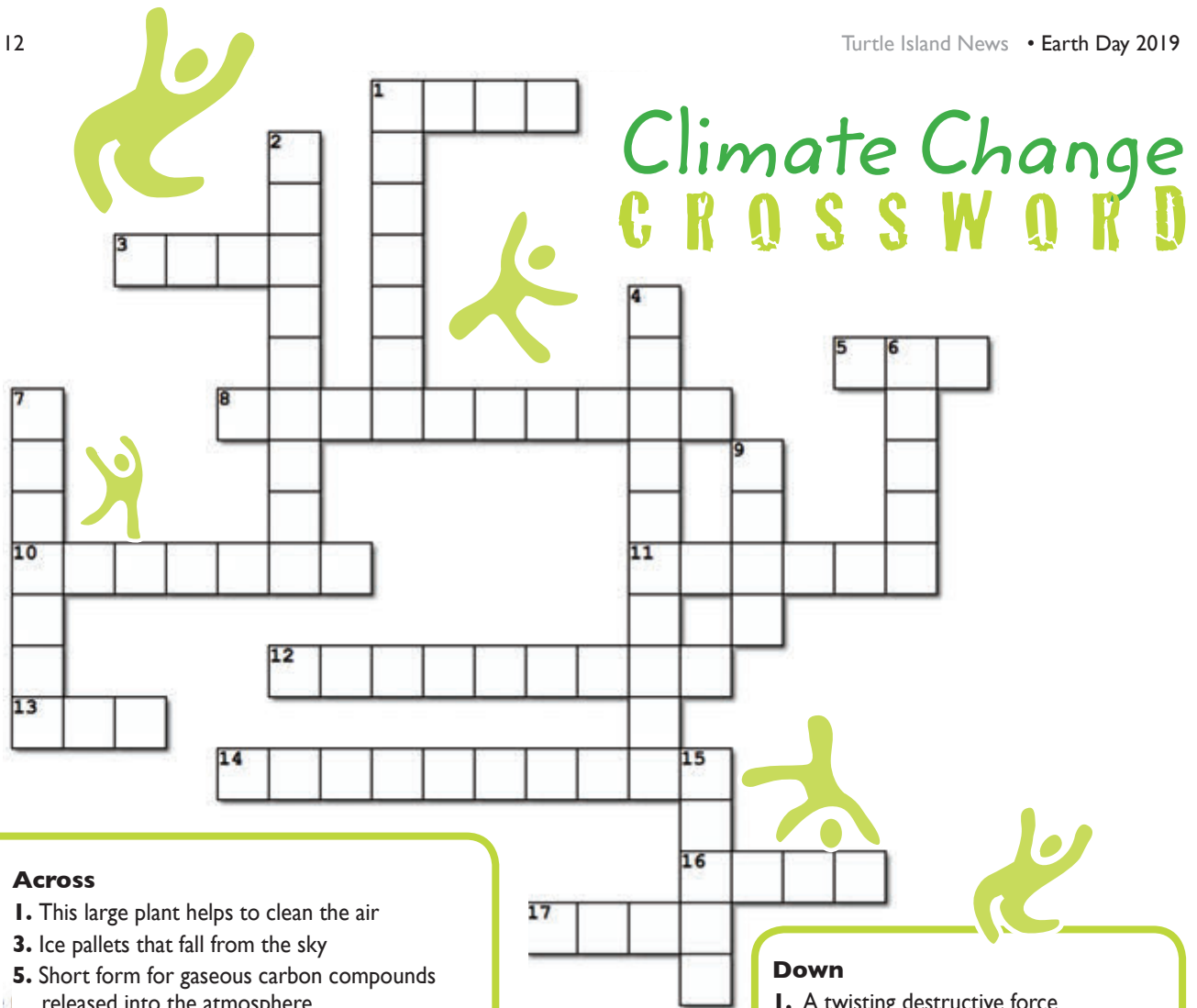


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**Across**

1. This large plant helps to clean the air
3. Ice pallets that fall from the sky
5. Short form for gaseous carbon compounds released into the atmosphere
8. The ring of gases surrounding the earth
10. Cows produce this
11. In its impure for in: charcoal, soot, and coal
12. The production and discharge of something, especially gas or radiation
13. What we see when we look up
14. Glass houses that we grow in

Down

1. A twisting destructive force
2. The presence in or introduction into the environment of a substance or thing that has harmful or poisonous effects
4. Powerful storms with wind that starts over the water
6. A deep body of water
7. Another name for the creatures that inhabit the earth with us

It's good to Compost!

Composting is a form of recycling. It helps us reduce the amount of rubbish that we send to landfill sites! And it's an easy way to get some excellent and free fertilizer for the garden.

For best results use grass, leaves, flowers, vegetable & fruit scraps, leftover table scraps (not meat), egg shells, coffee grounds and stale bread. Paper, cardboard, sawdust, animal manure and seaweed can also be composted.

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Recycling Facts

Who wants to take out the trash?

Are you sorting out your paper, plastic and other recyclables?



Ok... sounds like you need a little encouragement to get excited about

helping the planet.

Here are some fun facts that can help teach you the importance of recycling. You can help save the planet!

Why Recycle Glass?

The energy conserved by recycling one glass bottle is enough to light a 100-watt light bulb for four hours, the Chevron Cars Recycling Facts for Kids website explains. Glass is a special material, because it can be recycled over and over again without wearing out.

Why Recycle Paper?

It takes 70 percent less energy to make recycled paper than to make brand-new paper, according to the Washington State Department of Ecology Kids Page.

Why Recycle Plastic?

It takes about 500 years for plastic to break down after it's thrown away, according to the Planet Pals website.

Why Recycle Aluminum?

Recycling aluminum cans saves 95 percent of the energy required to make aluminum from ore, according to the Chevron Cars website. Most aluminum cans today are made with recycled materials.

Un-Scramble

Unscramble the letters to display the Climate Change related word.



1. LGBALO

2. EOUNGREHSE

3. OARNCB SGA

4. PTIOOLLUN

5. AIMTCLE

6. HAMNEET

7. SPAMOHEETR

8. EWAHERT

9. MTOSRS

10. RODUHTG

WORD SCRAMBLE ANSWERS
1. GLOBAL, 2. GREENHOUSE, 3. CARBON GAS,
4. POLLUTION, 5. CLIMATE,
6. METHANE, 7. ATMOSPHERE, 8. WEATHER,
9. STORMS, 10. DROUGHT

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See if you can locate all 23 words which we associate with climate change.

Good Luck!

Word Search

p o s c w f w l h g s s g e e m y f
l d f e i k i f e u p t m l w r c w
w a m r r a j k a k r i o o l u a k
r n e p h i z m t s s r r r r l r k
d r e o r v f z r s a l i s m c b s
b o j l l s b o i e d g t c q s o d
y t v l s g c o h a h n w l a l n z
n r n u o q n c v c v t i w i n d j
e d y t m s m i j r r l a x m d e s
e i t i b e w u j i f n z e e q h s
r v m o d j l n b f r z o l w c o l
t a z n j u d x m o p s w i v p r e
v z l j j o s d e d t l f t e o n q
i a n l w y p t d o t r w v y a k t
a w g m z s y d i b x f i q h m y a
g r e e n h o u s e d t b t e n e i
g l o b a l n a e c o d e n i a r m
a x k c k l r s e t a m i l c l w d

Tree
World
Global
Climate

Weather
Greenhouse
Gas
Storms

Hurricanes
Tornado
Hail
Wind

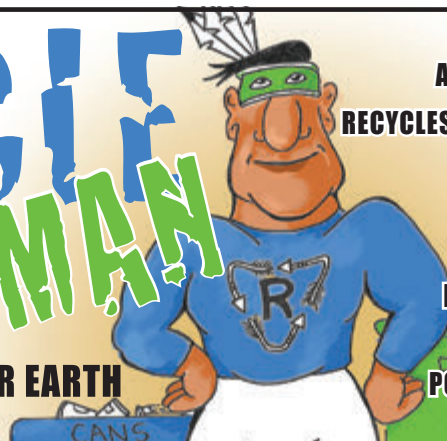
Dust
Heat
Fire
Rain

Carbon
Methane
CO2
Ocean

Pollution
Fires
Emissions

RECYCLE MAN

DEFENDER OF THE MOTHER EARTH



**ATTACKS TRASH
ANYWHERE HE FINDS IT**

**RECYCLES TRASH FASTER THAN
A SPEEDING BULLET**

ABLE TO SPOT TRASH

KILOMETRES AWAY

**LIKE A SOLAR BATTERY
HE GENERATES
SUPERHUMAN
POWERS FROM THE SUN**



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Spot the difference



ANSWERS: SPOT THE DIFFERENCE: 1. Sleeve cuffs 2. Extra feather 3. Ball on top of post 4. Head dress depth 5. Tongue out 6. Coat pocket

What am I.... Riddles



What Am I?

I have an eye but I can't see
I rotate but I'm not the earth
I have a spout but I'm not a teapot
I can destroy buildings but I'm not dynamite
I'm in the Wizard Of Oz but I'm not a witch

I AM A TORNADO

What Am I?

I fall but I don't get hurt
I pour but I'm not a jug
I come before the word bow but I'm not hair
I help plants grow but I'm not the sun
I can make you wet but I'm not a bath

I AM RAIN

What Am I?

I can't be seen but I'm not a ghost
I can crack but I don't break
I can clap but I don't have any hands
I happen after a flash but I'm not a photo
I'm loud but I'm not music
I happen during a storm but I'm not lightning

I AM THUNDER

What Am I?

I provide light but I'm not a candle
I'm hot but I'm not a bonfire
I have rays but I'm not an aquarium
I'm a star but I'm not a celebrity
I rise in the morning but I'm not someone getting out of bed

I AM THE SUN

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- Rinse your bottles, cans and jars.
- Be sure to take the lids off.
- No motor oil, anti-freeze or transmission fluid containers in blue boxes.



GREEN BOX

- Paper that has food on it does not go in your box.
- Neither does carbon paper, paper (with tape, glue or staples), diapers or hard covers from books (pages are ok).
- Always remove plastic windows from envelopes and tissue boxes.



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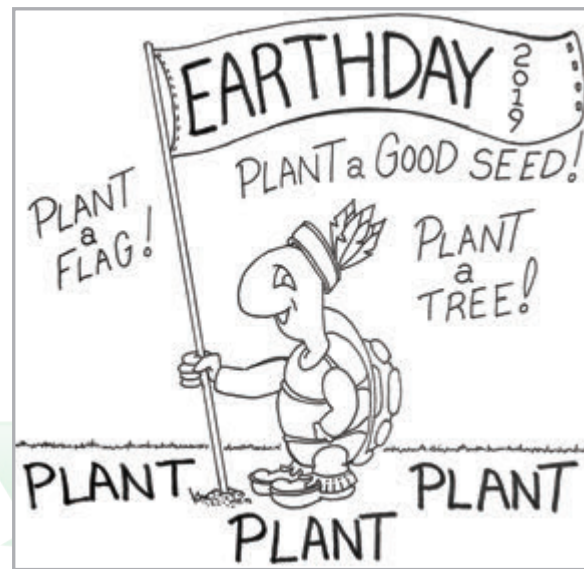
Happiness is...
driving your car after the
Karwash

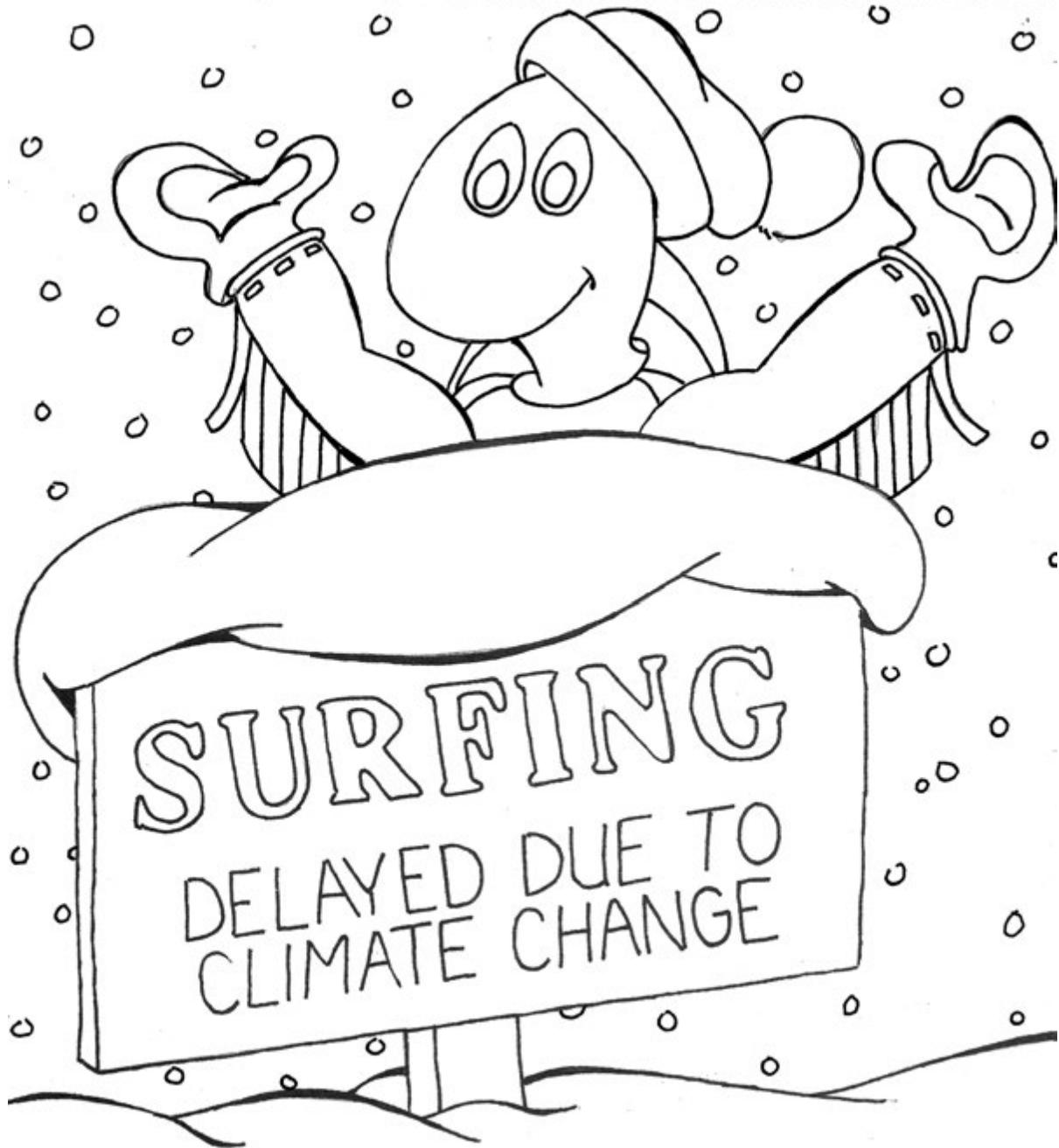
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Being a Turtle Club Kid... By Ron Johnson





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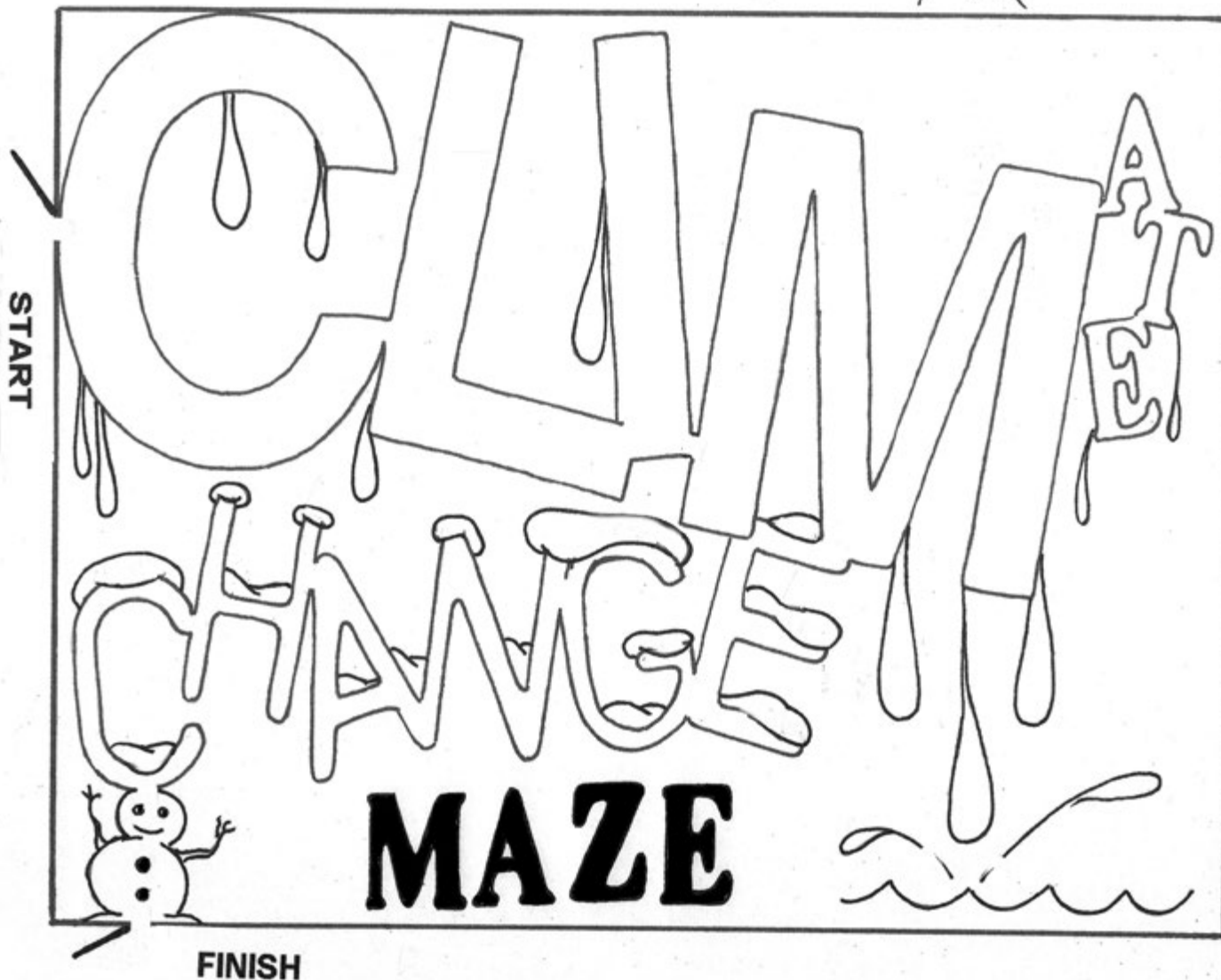
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Recycled Seed Paper

How to Make Plant-able Seed Paper for gifts

Step 1:

You will first need to gather a pile of recyclable paper. Shred or tear the paper into small bits. Put into a blender.

Step 2:

Pour some warm water over the shredded paper in the blender jar. Blend into a Smooth Pulp.
(Aim for porridge consistency not soup)

Step 3:

Stir in small seeds
(wild flowers or others)

Step 4. Pour mixture into a fine strainer to strain excess moisture.

Step 4: Spread pulp evenly out on a flat surface covered with something to absorb the moisture.
Roll with a rolling pin or flatten under a cookie sheet. Allow to dry.
(You may wish to press the paper under a cookie sheet lined with paper towels to keep paper from curling. while it dries)



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Earth Day Bucket List

OUTDOORS

- ☐ Go for a walk outside and get in touch with nature
- ☐ Pick up 6 pieces of litter and recycle or throw them away
- ☐ Take a picture of something you haven't noticed before in nature
- ☐ Plant a seed in the ground tend to it
- ☐ Plant native plants and drought tolerant plants to cut watering down

INDOORS

- ☐ Turn off the water while brushing your teeth
- ☐ Locate 10 items with a recycle symbol on them at home or in a store,
- ☐ Donate some of your old clothes or toys to a charity
- ☐ Turn off the lights when no one is in a room
- ☐ Find something in the house that you can reuse instead of throwing it away



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Our next magazine will be coming along shortly with tips and inspiration and lots of cool information.

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