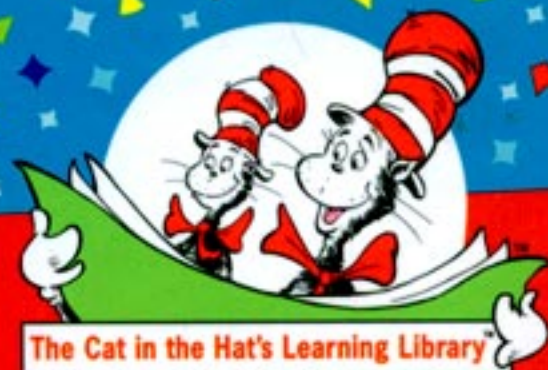




THE **CAT** IN THE **HAT**
Knows a Lot About That!



The Cat in the Hat's Learning Library

Oh Say Can You Say What's the Weather Today?

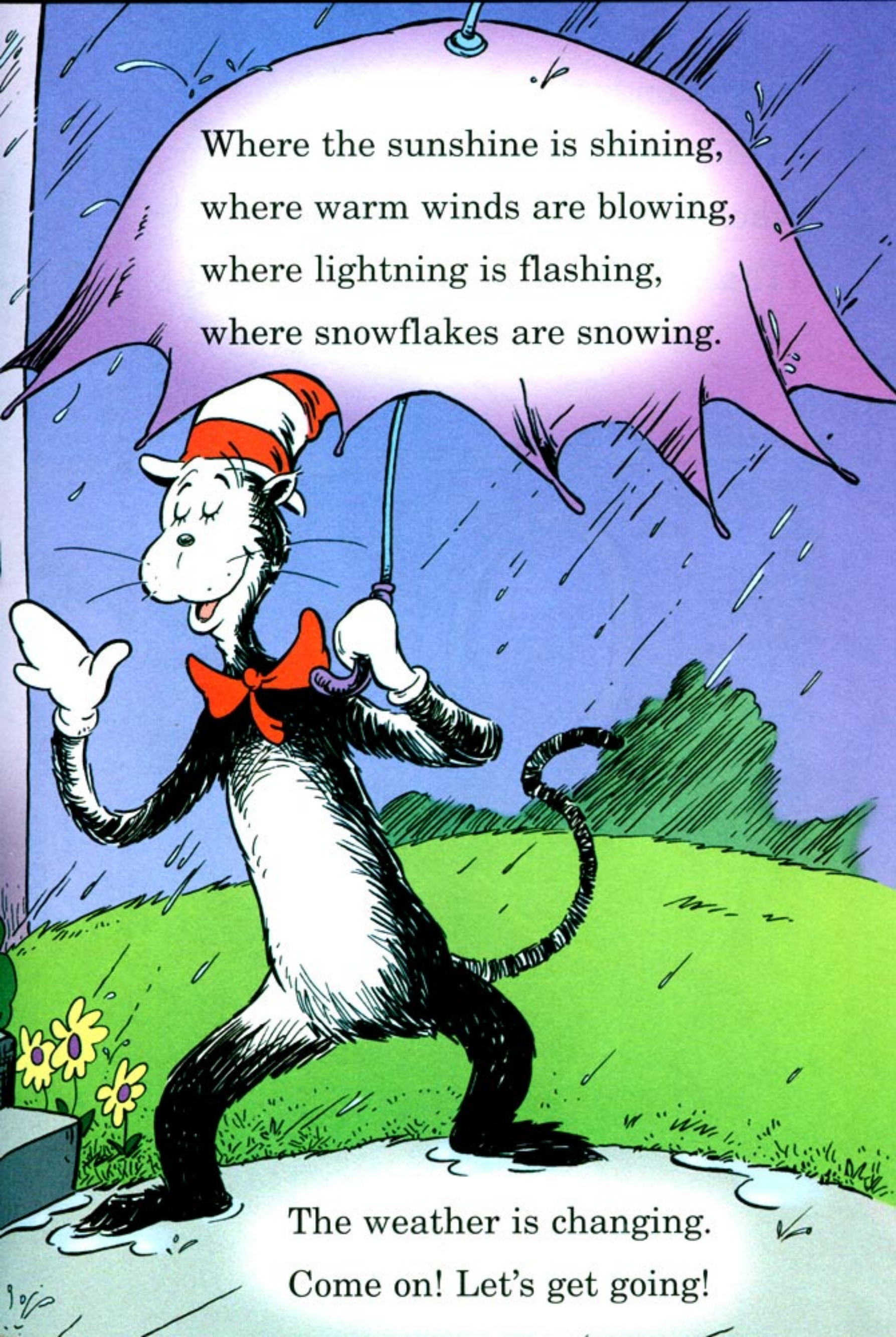


All About
WEATHER

by Tish Rabe
illustrated by Aristides Ruiz

I'm the Cat in the Hat
and it's raining, I know,
but let's not stay inside—
we've got places to go!



The Cat in the Hat is walking in the rain. He is wearing his signature red and white striped hat, a red bow tie, and a black and white striped suit. He is holding a large purple umbrella over himself. The rain is falling heavily, and there are puddles on the ground. In the background, there are green bushes and a few yellow flowers. The sky is a mix of blue and purple, suggesting a storm or a change in weather.

Where the sunshine is shining,
where warm winds are blowing,
where lightning is flashing,
where snowflakes are snowing.

The weather is changing.
Come on! Let's get going!

First stop is the top
of Mount Karakakoo,
where they study the weather.
(That's all that they do!)



Watching the weather
helps everyone know
what to wear, where to live,
and what food they can grow.

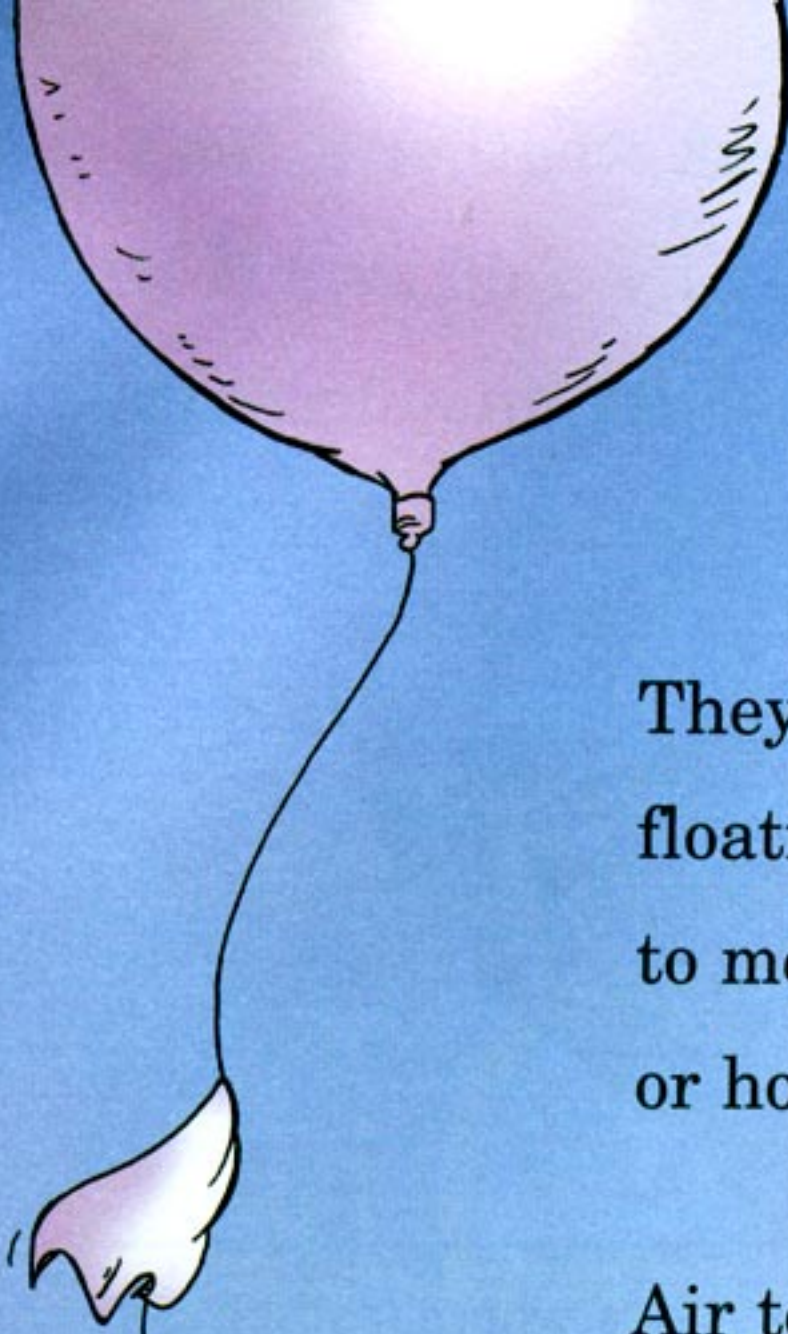
Pilots check weather
when they fly a plane.
Are they flying in sunshine
or clouds filled with rain?



Corn grows where it's hot.
Rice grows where it's wet.



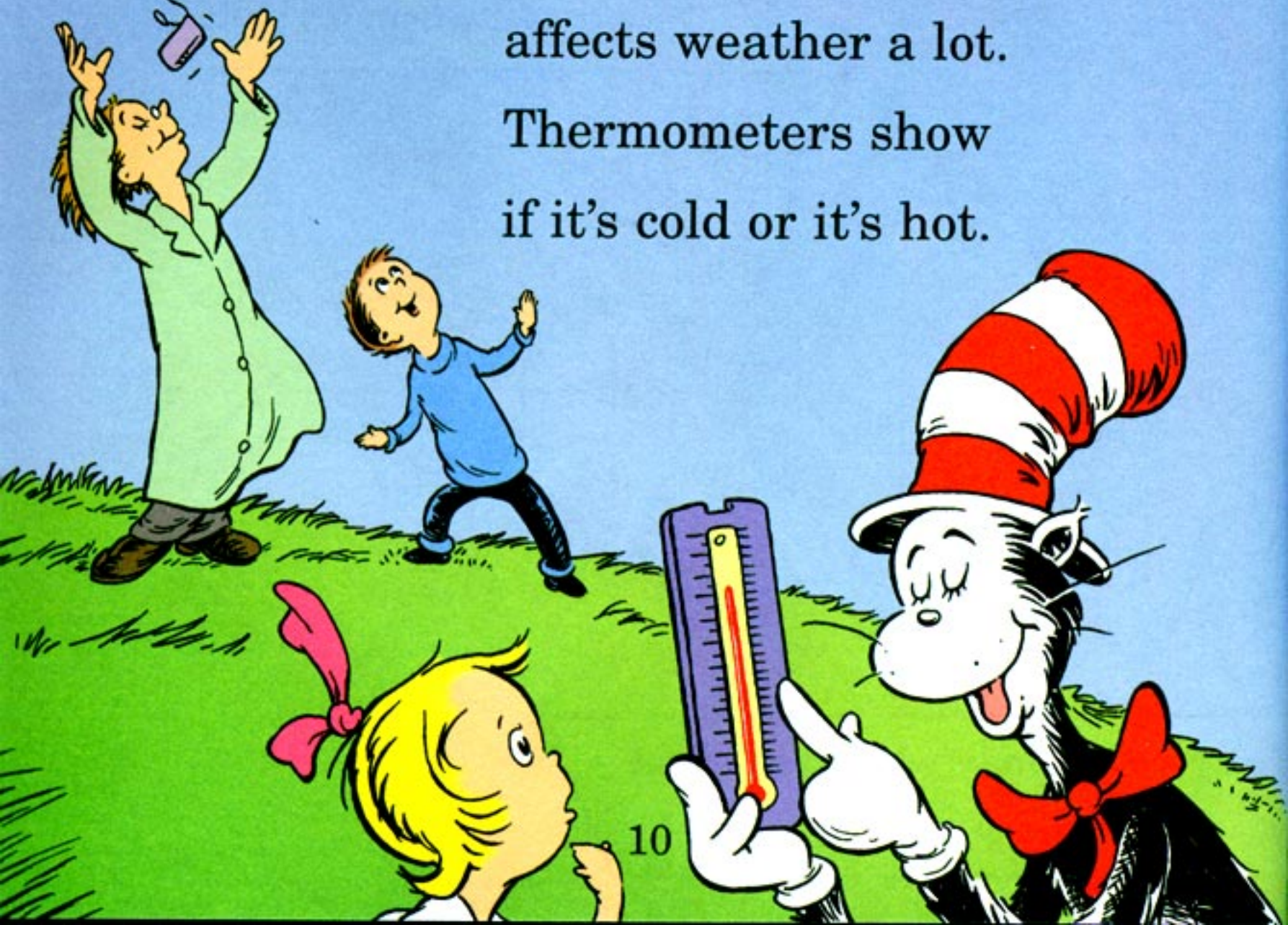
Farmers grow what grows best
in the weather they get.



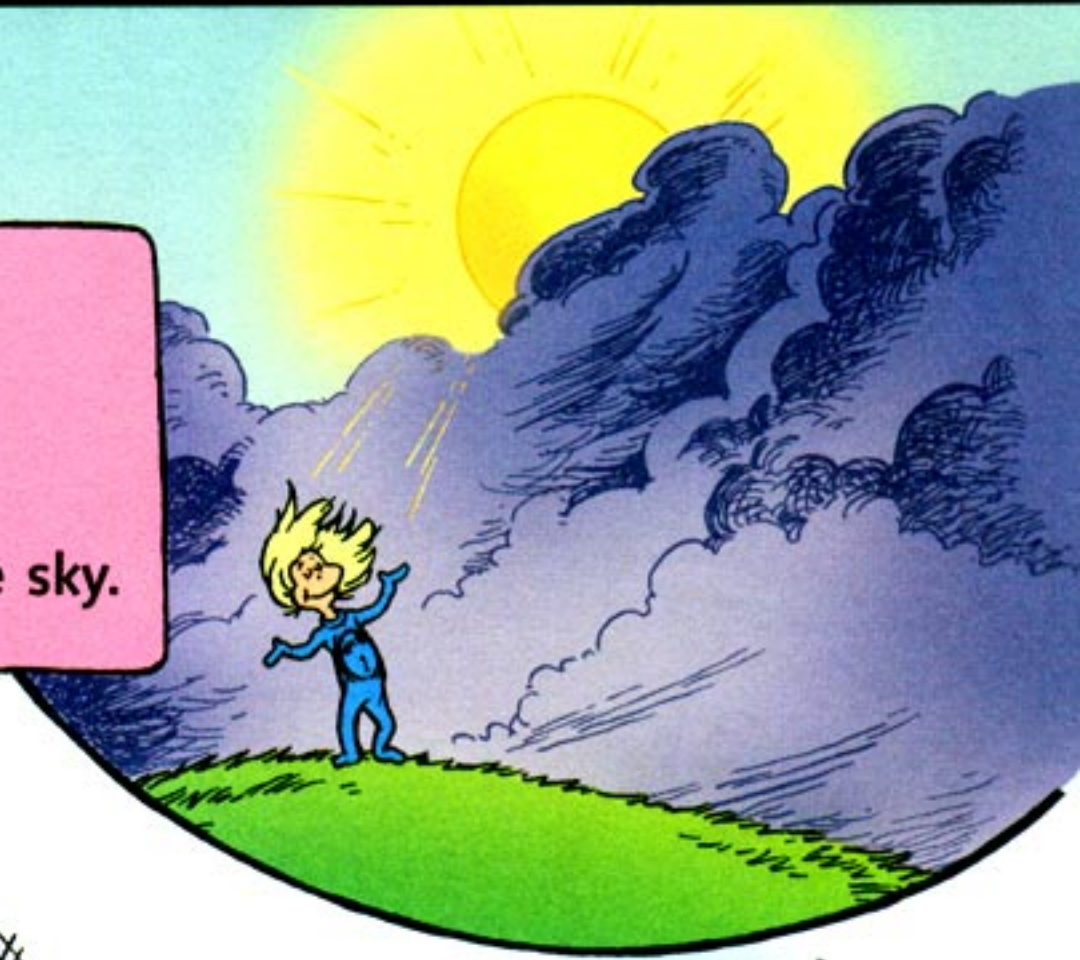
Meteorologists forecast the weather and say what kind of weather is heading our way.

They send weather balloons floating high in the air to measure how hot or how cold it is there.

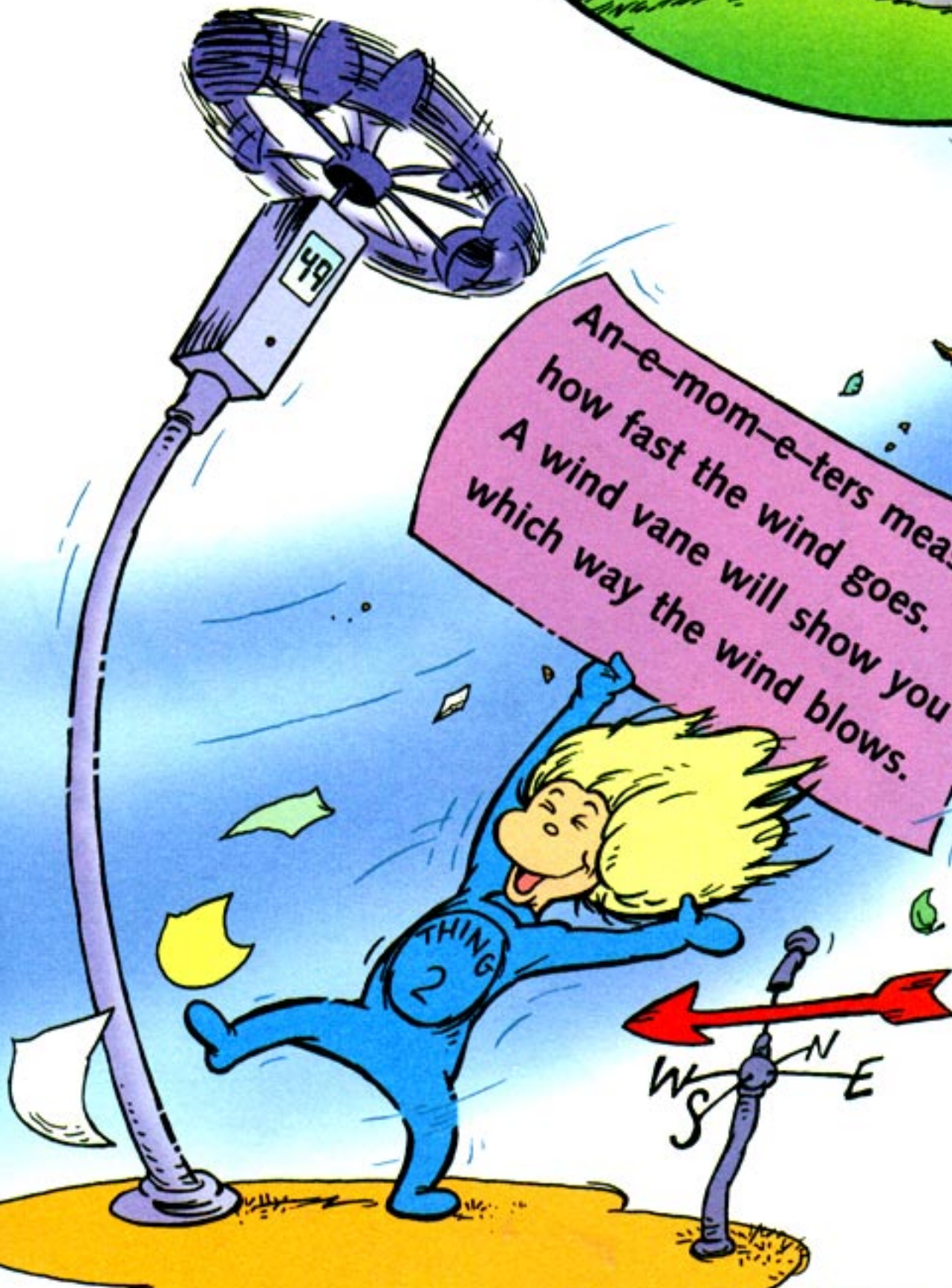
Air temperature affects weather a lot. Thermometers show if it's cold or it's hot.



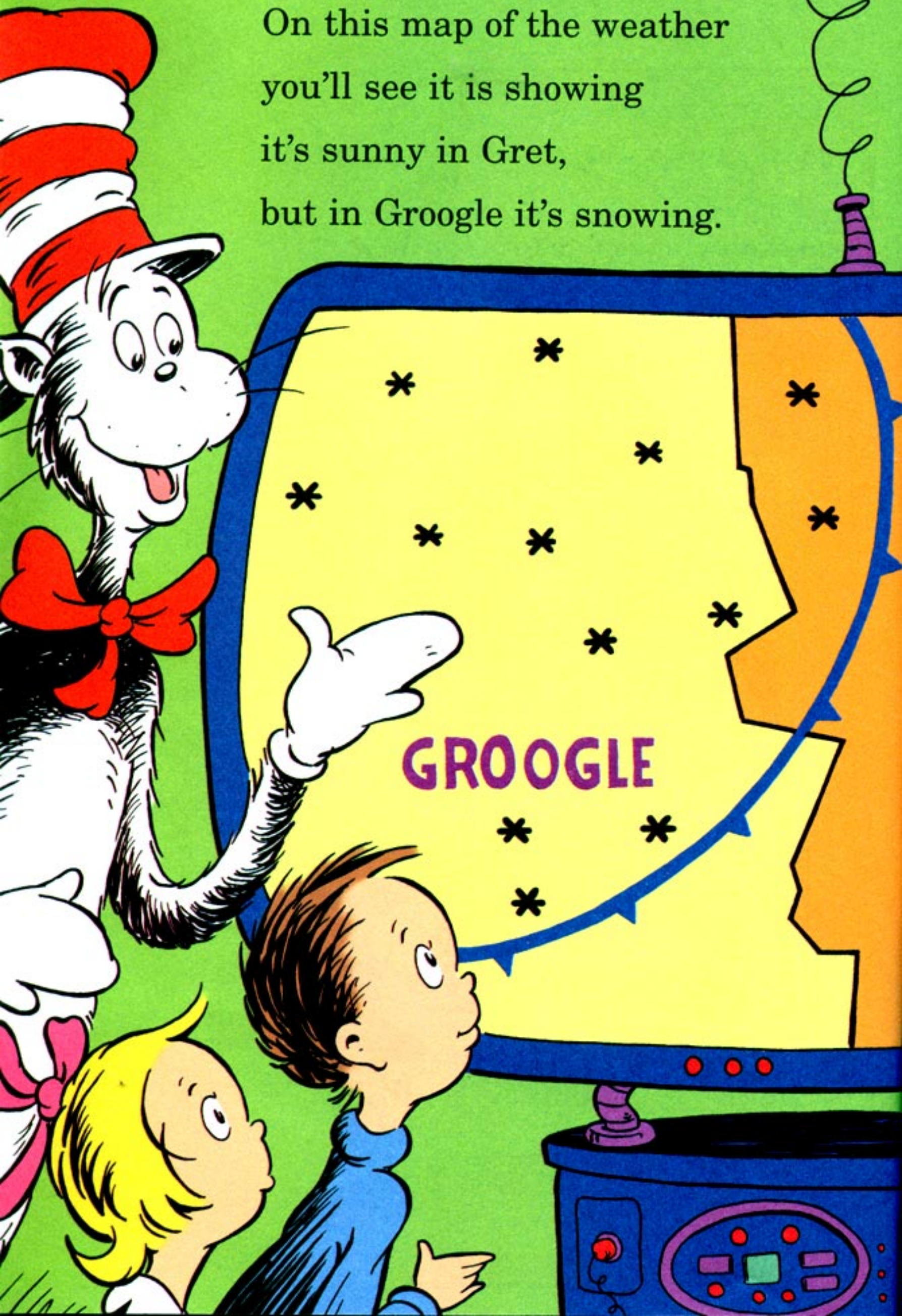
Wind changes weather
and we can see why.
It blows clouds along
and clears rain from the sky.



An-e-mom-e-ters measure
how fast the wind goes.
A wind vane will show you
which way the wind blows.



On this map of the weather
you'll see it is showing
it's sunny in Gret,
but in Google it's snowing.



A strong wind is blowing
the snow right toward Gret.
Tomorrow the weather
in Gret will be wet.

GRET

Symbols on weather maps
show right away
what kind of weather
we're having today.



THIS SYMBOL ☁☁
means drizzle, and
this one ☔☔ means
rain.

* * This means it's
snowing.

This means 🌀
HURRICANE!



Weather forecasts
are important to us.
Will we need a jacket
to wait for the bus?

When clouds form a ring
and it circles the moon,
sailors know this ring means
there's a storm coming soon.



A pine cone can forecast
the weather. Here's why.
It's closed when it's wet.
Opened up when it's dry.



Here is a fact that
we cannot explain.
Frogs croak a lot more
when it's going to rain.



CROAK!

CROAK!
CROAK!



There are all kinds of clouds
you can see in the sky.
Cirrus are light, wispy
clouds floating by.



CUMULONIMBUS



CUMULUS

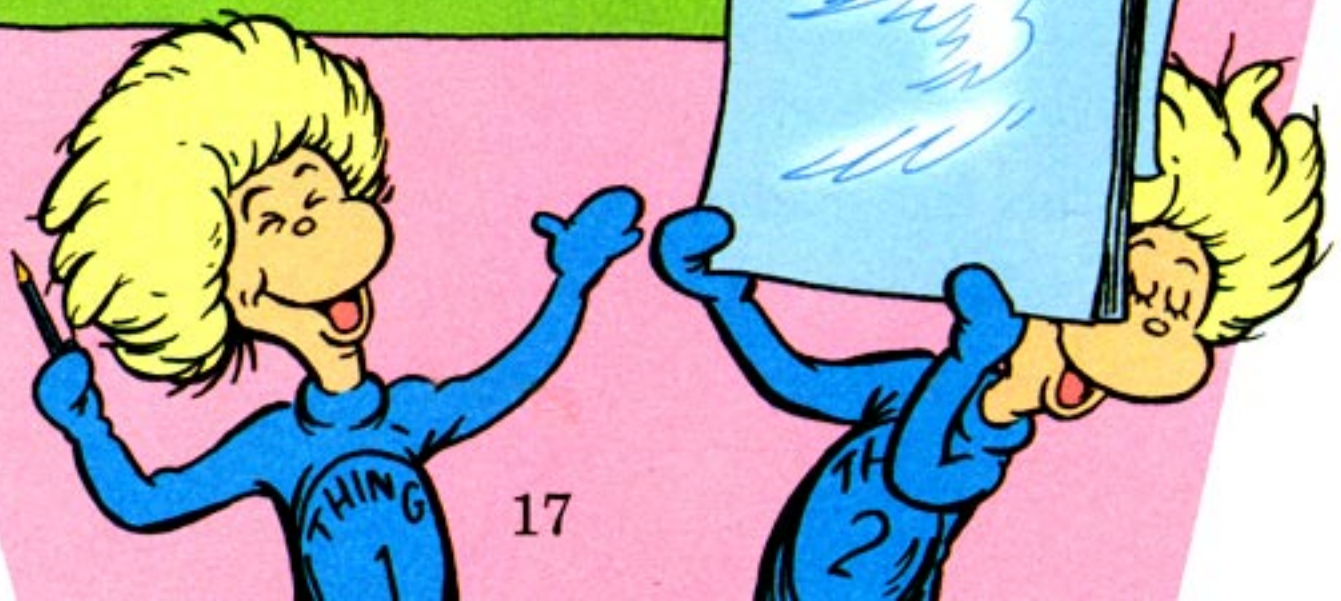
Cumulonimbus clouds mean
there's a storm on the way.
You see cumulus clouds
on a warm, sunny day.



When a cloud touches down
on the ground, it's called fog.
If it mixes with smoke,
then the fog becomes smog.

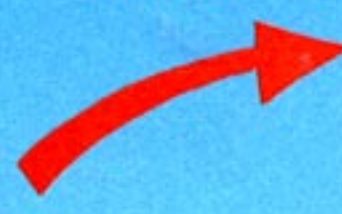


A fun way to learn a
cloud's shape is to draw it.
We said, "That's a cirrus!"
the minute we saw it.



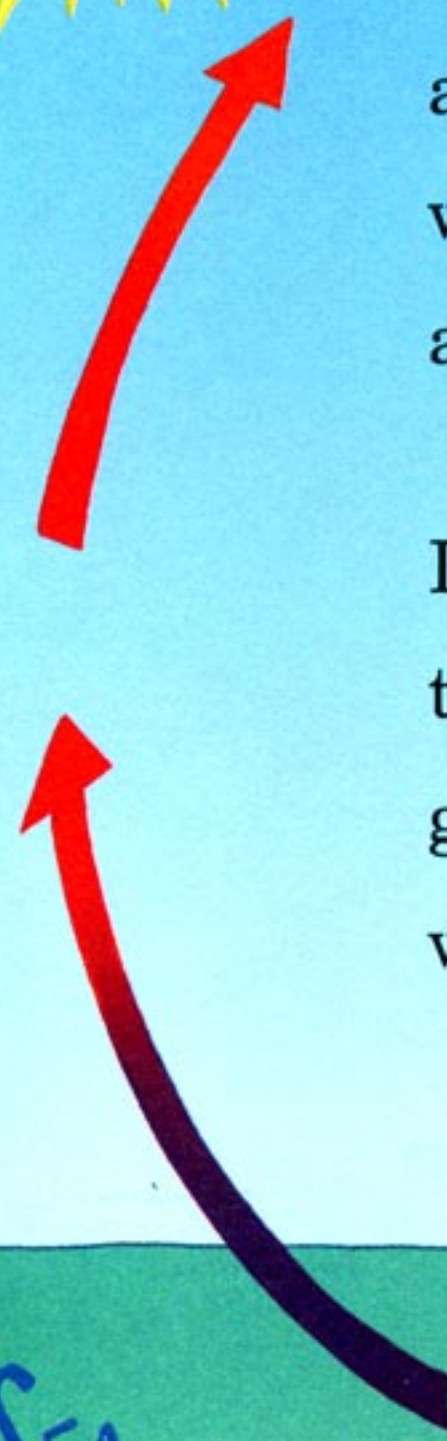


WATER DROPLETS FORM CLOUDS



If you looked inside any cloud, you would see water droplets that bounce all around happily.

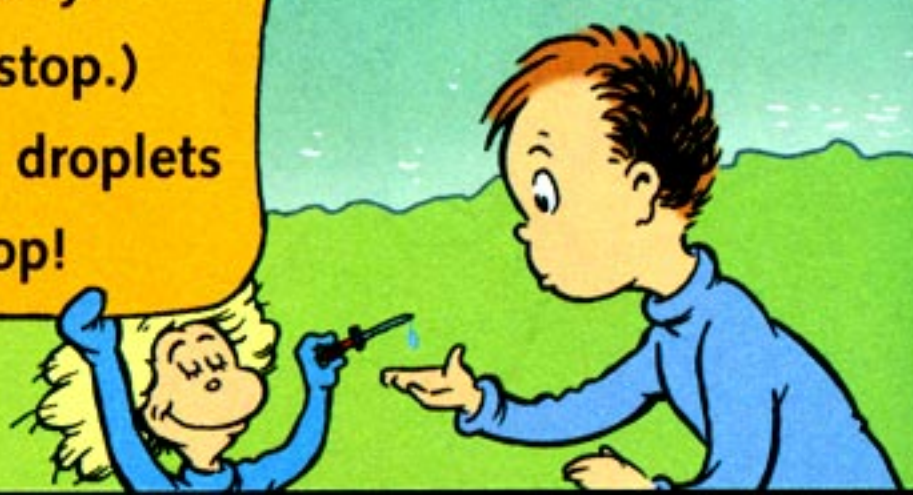
If the droplets get close, they will soon join together, get heavy, and fall—then we're in for wet weather!



SEA

WATER EVAPORATES

Water droplets are tiny.
(This fact made us stop.)
It takes one million droplets
to make one raindrop!





They fall to the ground,
then the sun's energy
turns them to water vapor,
which we cannot see.

Water vapor floats up,
forms a new cloud, and then
rain falls from the cloud
to the ground once again.

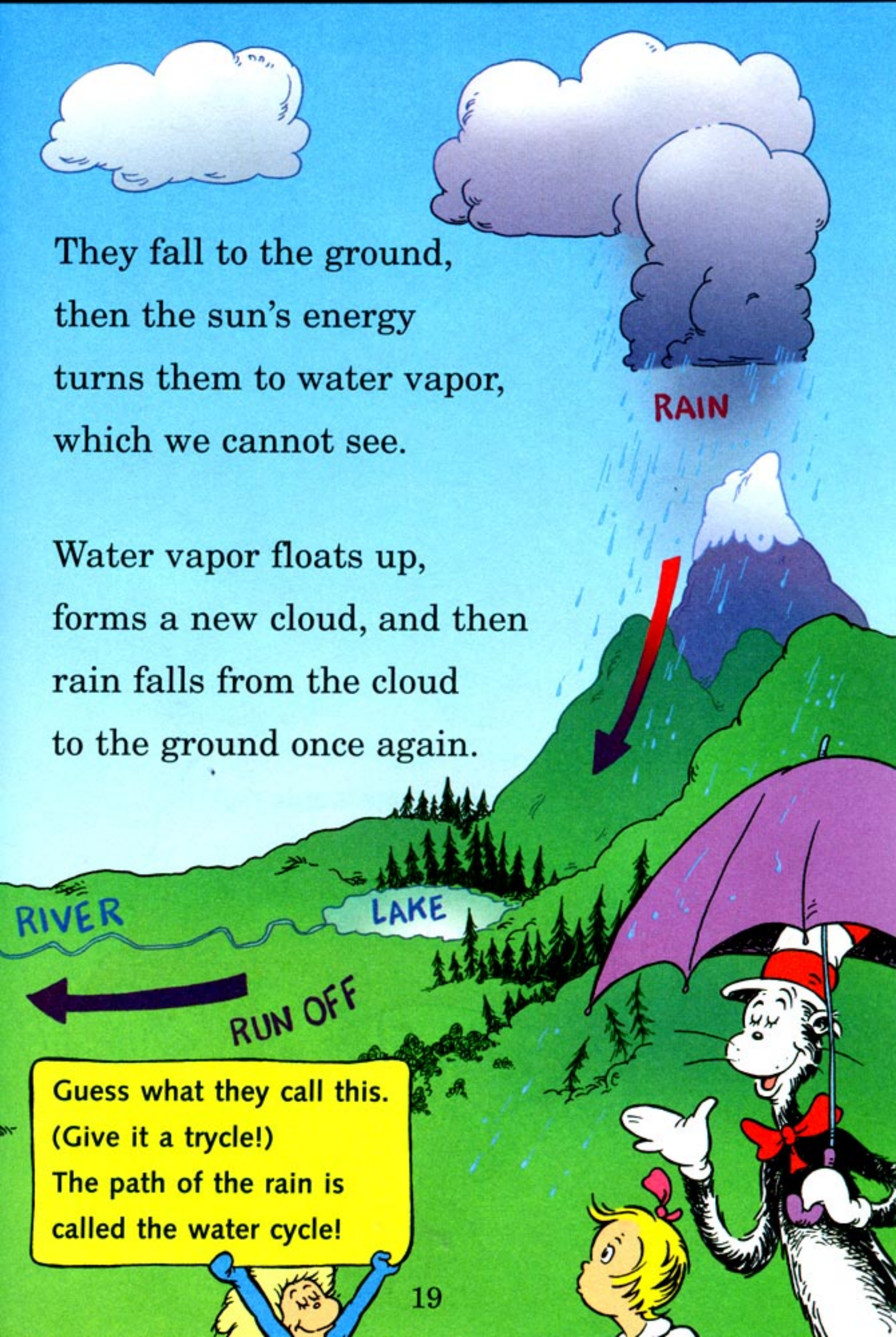
RAIN


RIVER

LAKE

RUN OFF

Guess what they call this.
(Give it a trycle!)
The path of the rain is
called the water cycle!



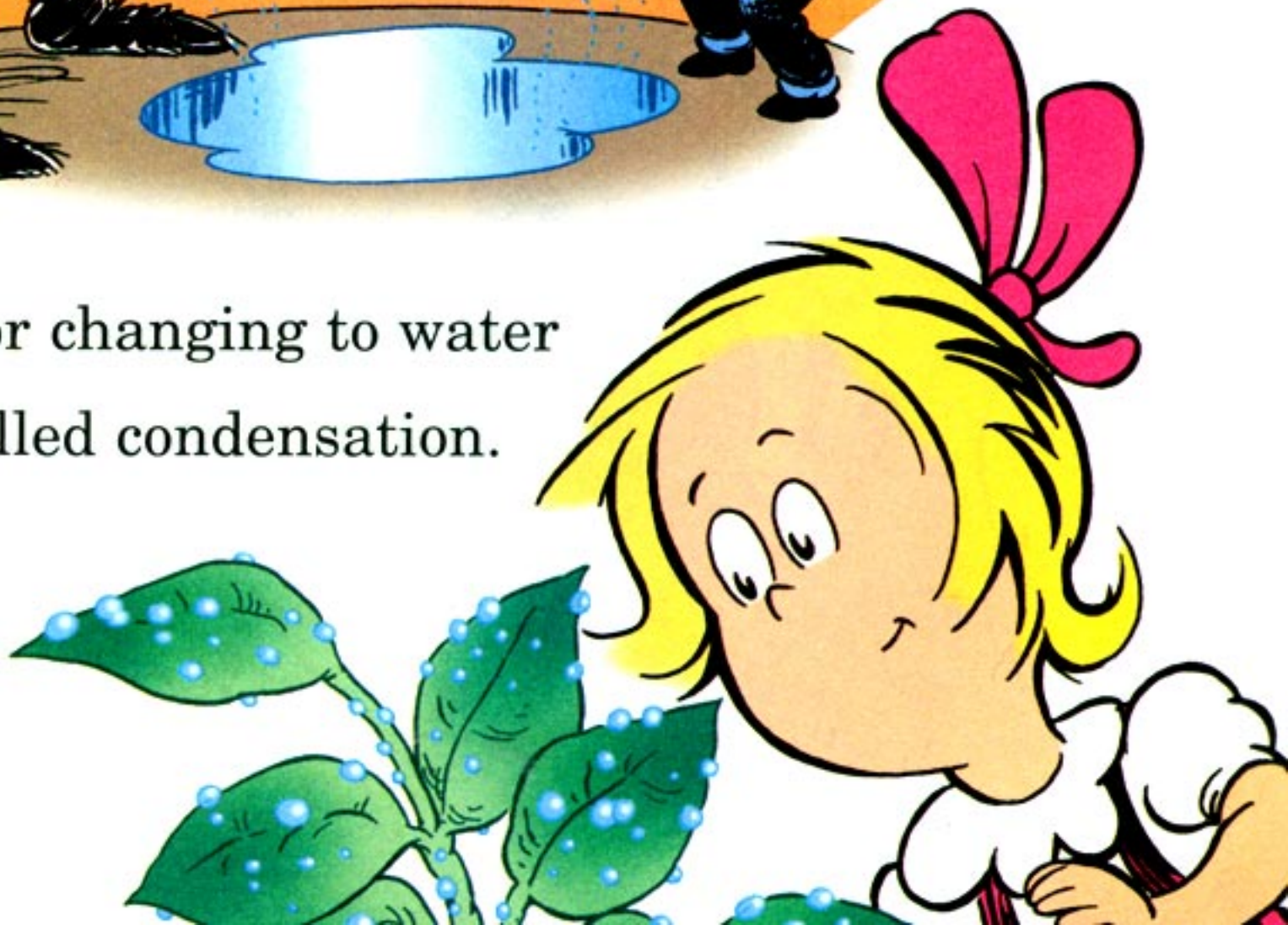


Here are some words that
we learned on vacation.
Rain, snow, sleet, and hail
are called precipitation.

Water changing to vapor
is called evaporation.

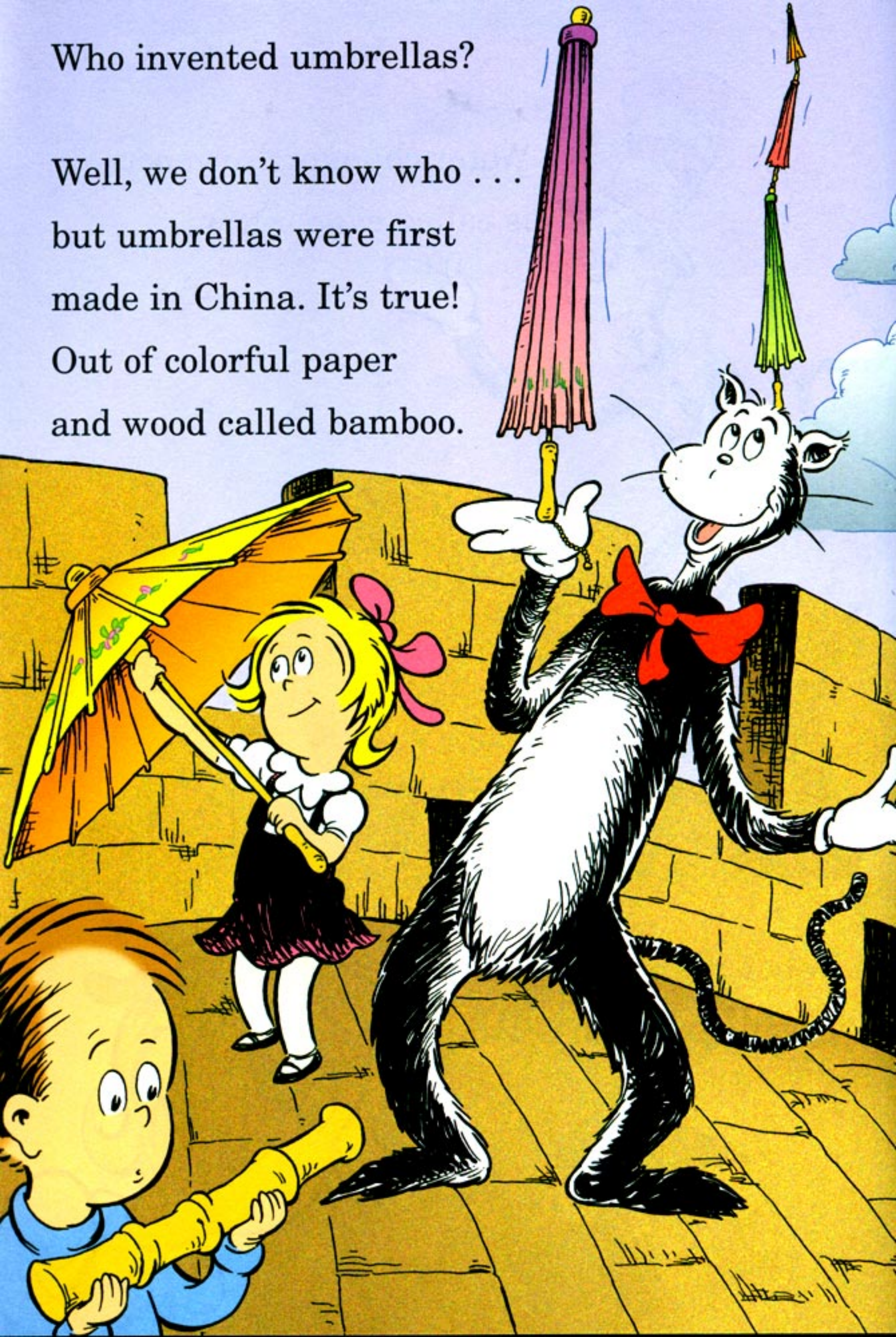


Vapor changing to water
is called condensation.



Who invented umbrellas?

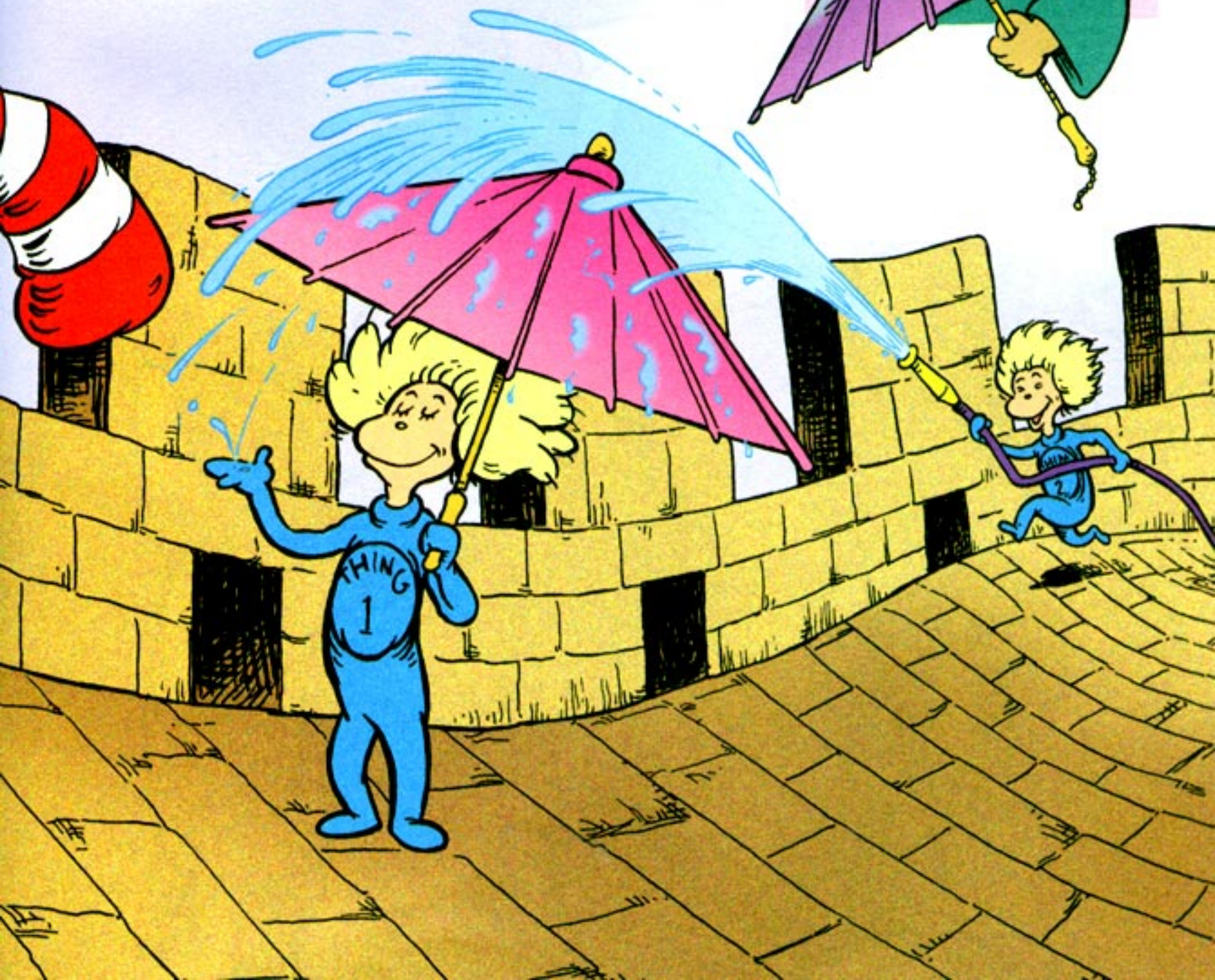
Well, we don't know who . . .
but umbrellas were first
made in China. It's true!
Out of colorful paper
and wood called bamboo.



Thousands of years ago
they were first made,
so out in the sun
folks could walk in the shade.

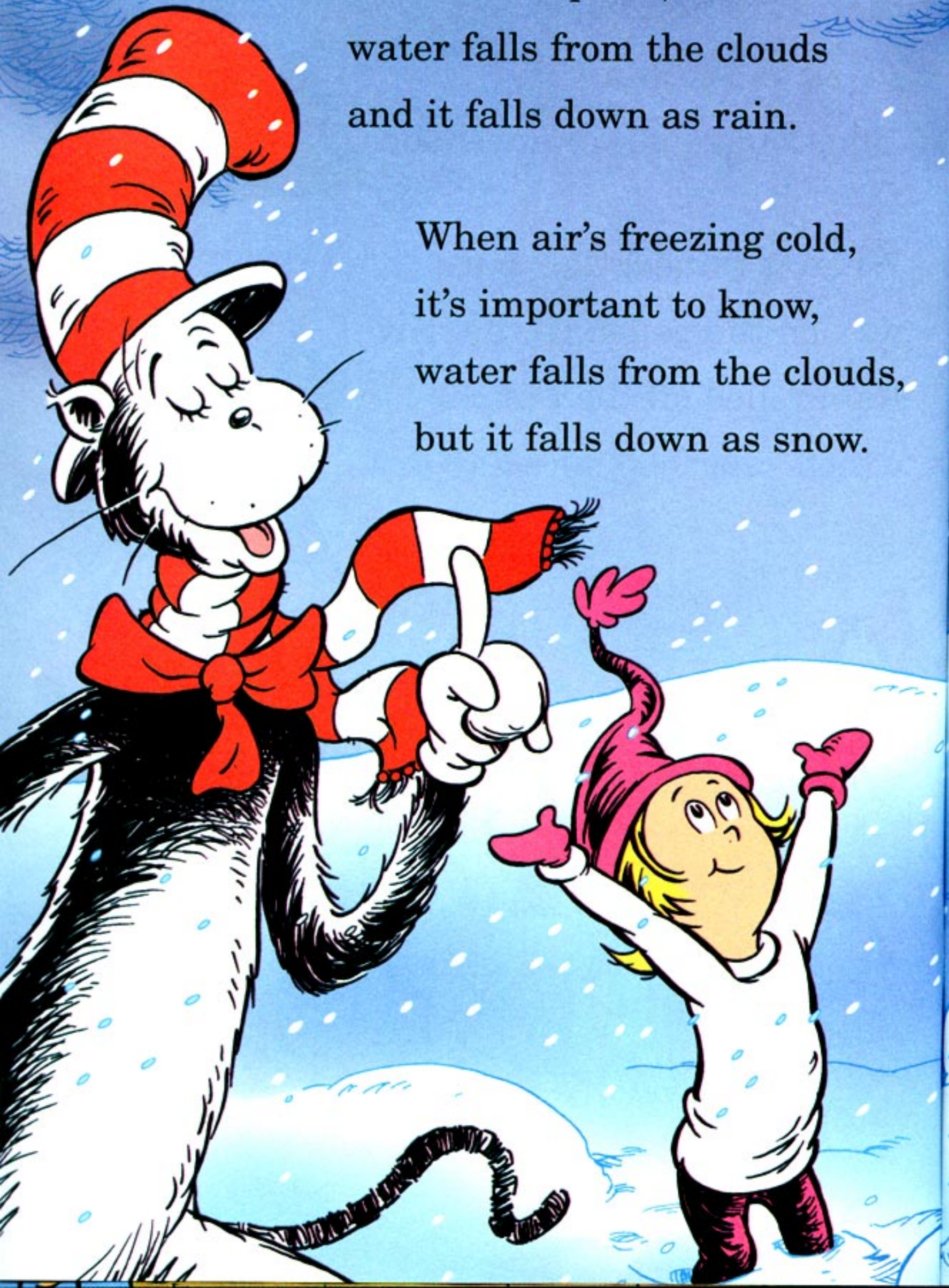


When it rained, they put
wax on the paper. Here's why.
Rain rolled off the wax,
which kept folks nice and dry.



When air's warmer than freezing,
I'd like to explain,
water falls from the clouds
and it falls down as rain.

When air's freezing cold,
it's important to know,
water falls from the clouds,
but it falls down as snow.

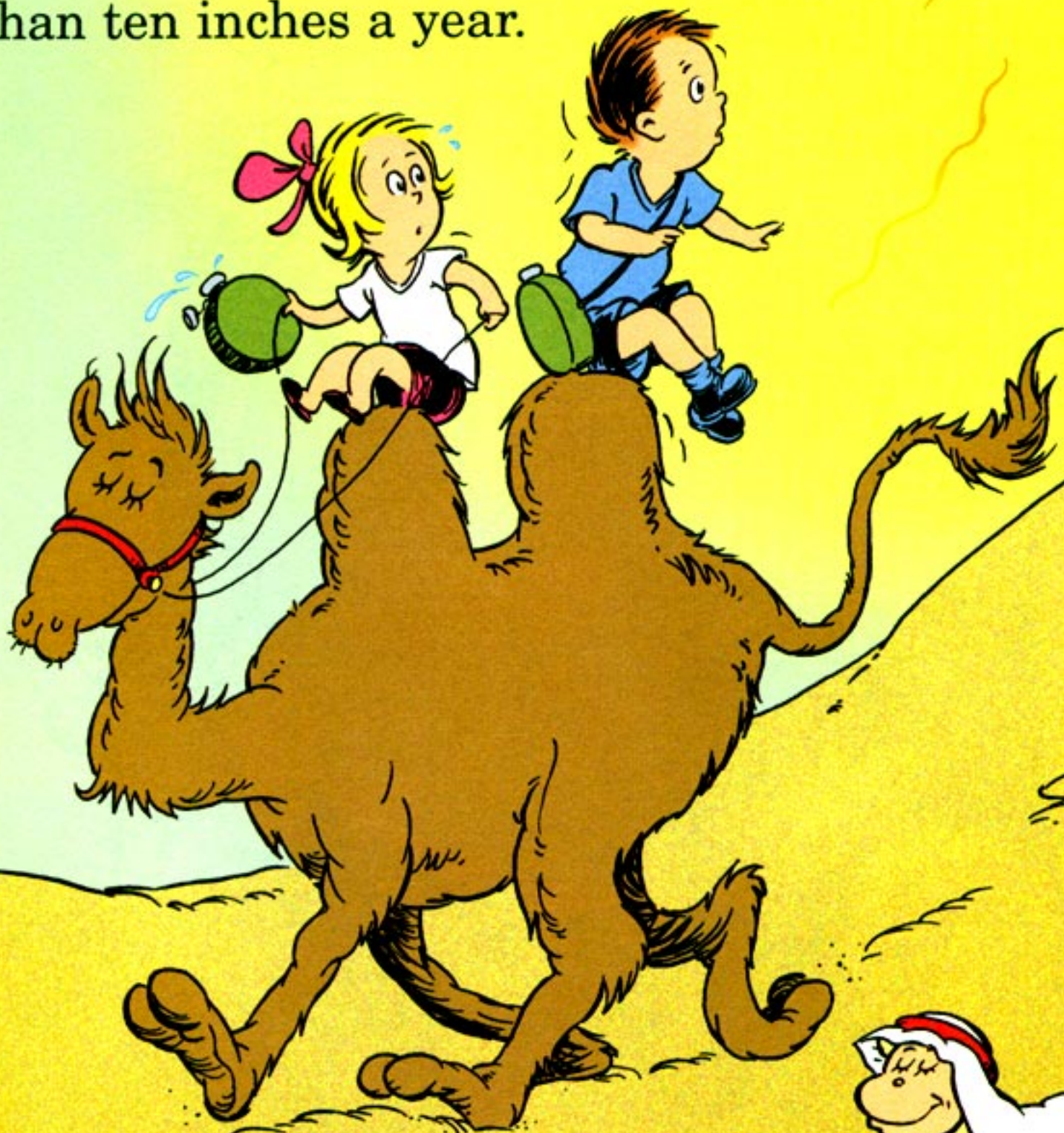


If you magnify snowflakes
the way that we are,
you will see that each one
is a six-pointed star.



They are made up of crystals
and each one you find
is like no other snowflake.
It's one of a kind!

The desert is dry
and the reason is clear.
Its rainfall is less
than ten inches a year.



Here is a word and we
both like to rhyme it.
The weather a place has
the most is its climate.




How do you keep cool
when you live in a land
that is hot, dry, and dusty
and covered in sand?

Loose-fitting clothes
let breezes blow through,
and light colors bounce
the sun's rays off you.

Where on earth is it coldest?
Meteorologists say
Antarctica is
freezing cold every day.



Land covered in ice
and deep, drifting snow.
The air is so cold
that plants cannot grow.



How thick is the ice here?
(This made us think quick!)
We are standing on ice
seven thousand feet thick!

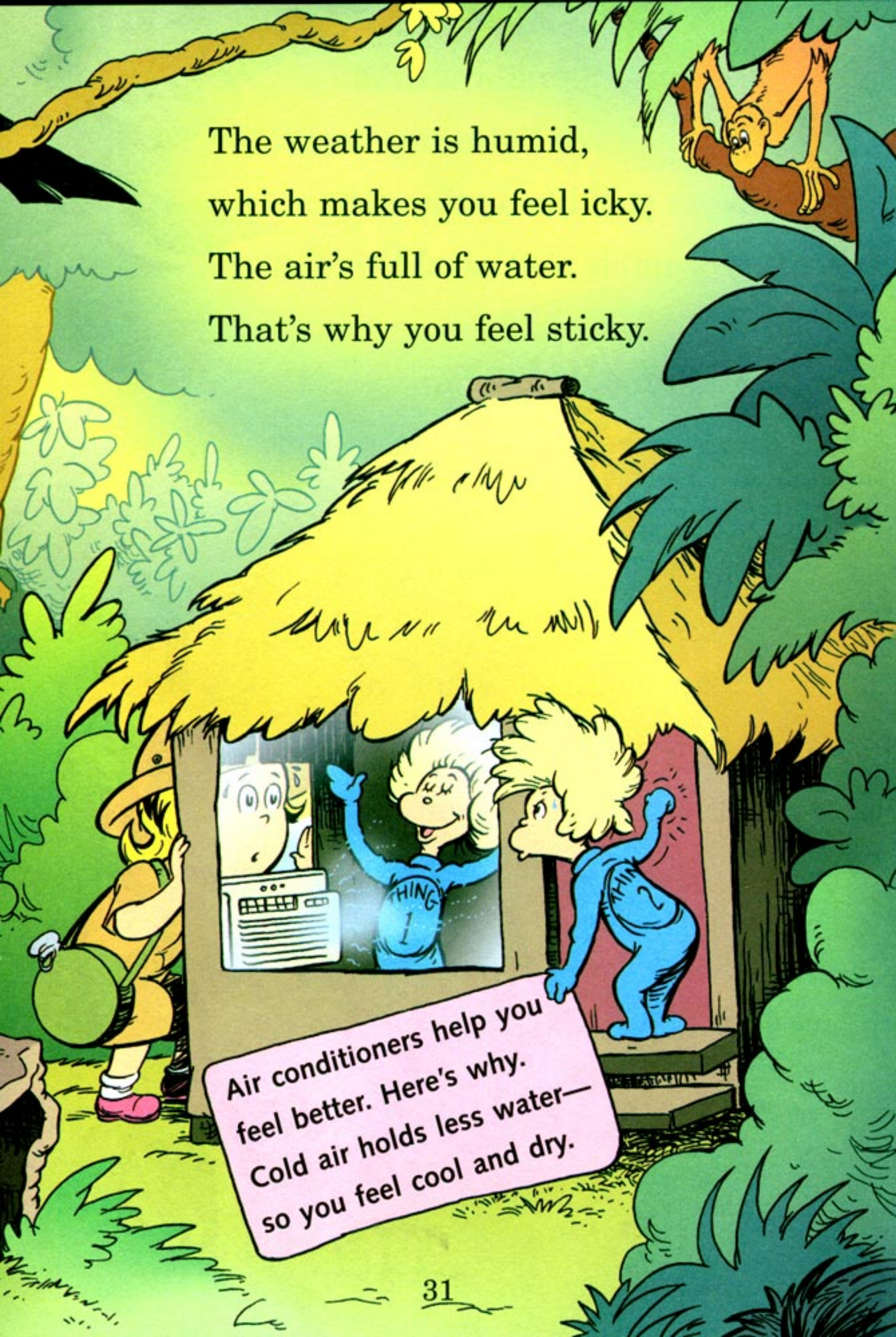
We used a thermometer
and now we know
in the air it is colder
than deep in the snow.

-20°F

20°F

In a tropical jungle
it's hot and it's wet.
If you go there to visit,
you soon start to sweat.





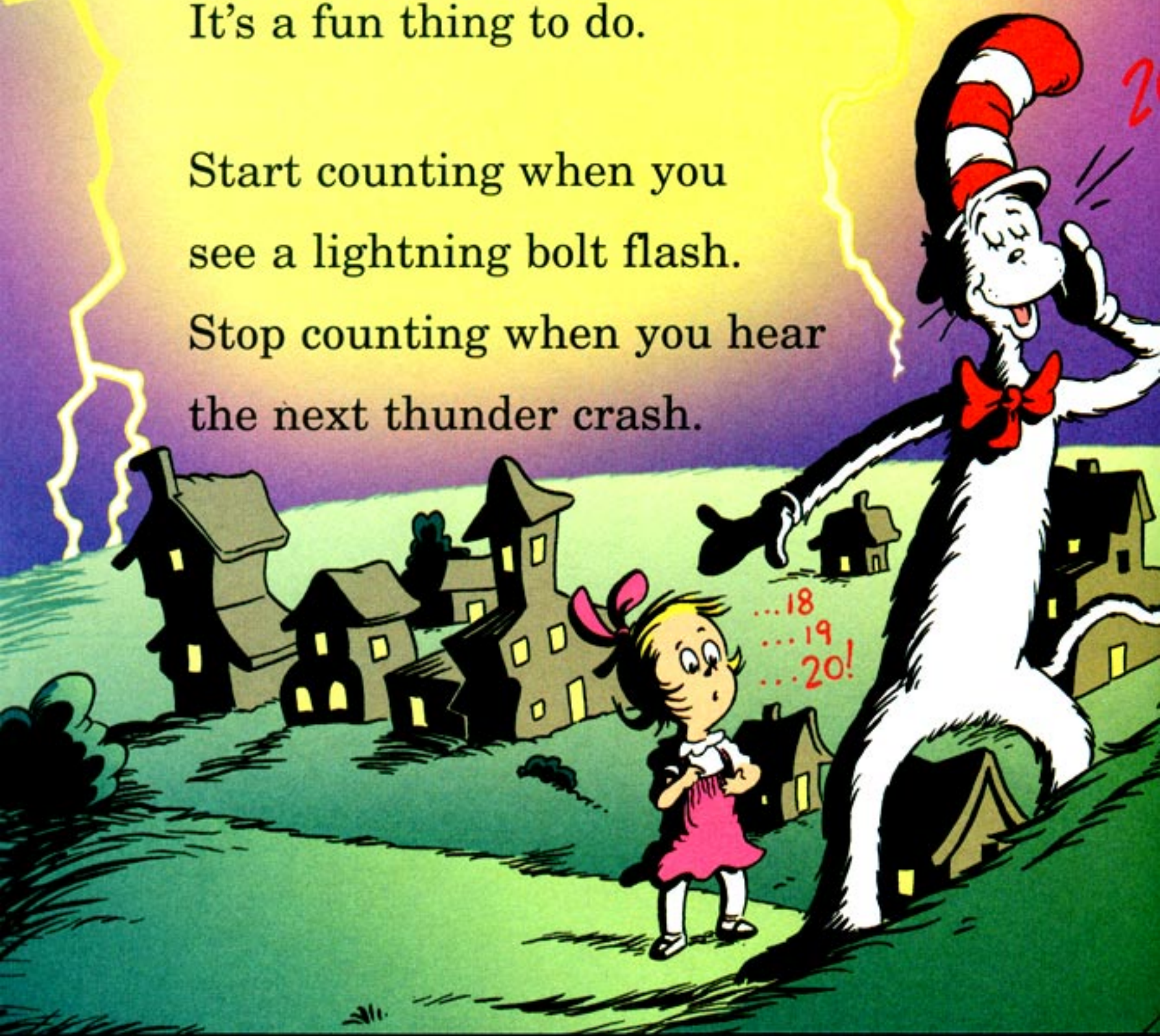
The weather is humid,
which makes you feel icky.
The air's full of water.
That's why you feel sticky.

Air conditioners help you
feel better. Here's why.
Cold air holds less water—
so you feel cool and dry.

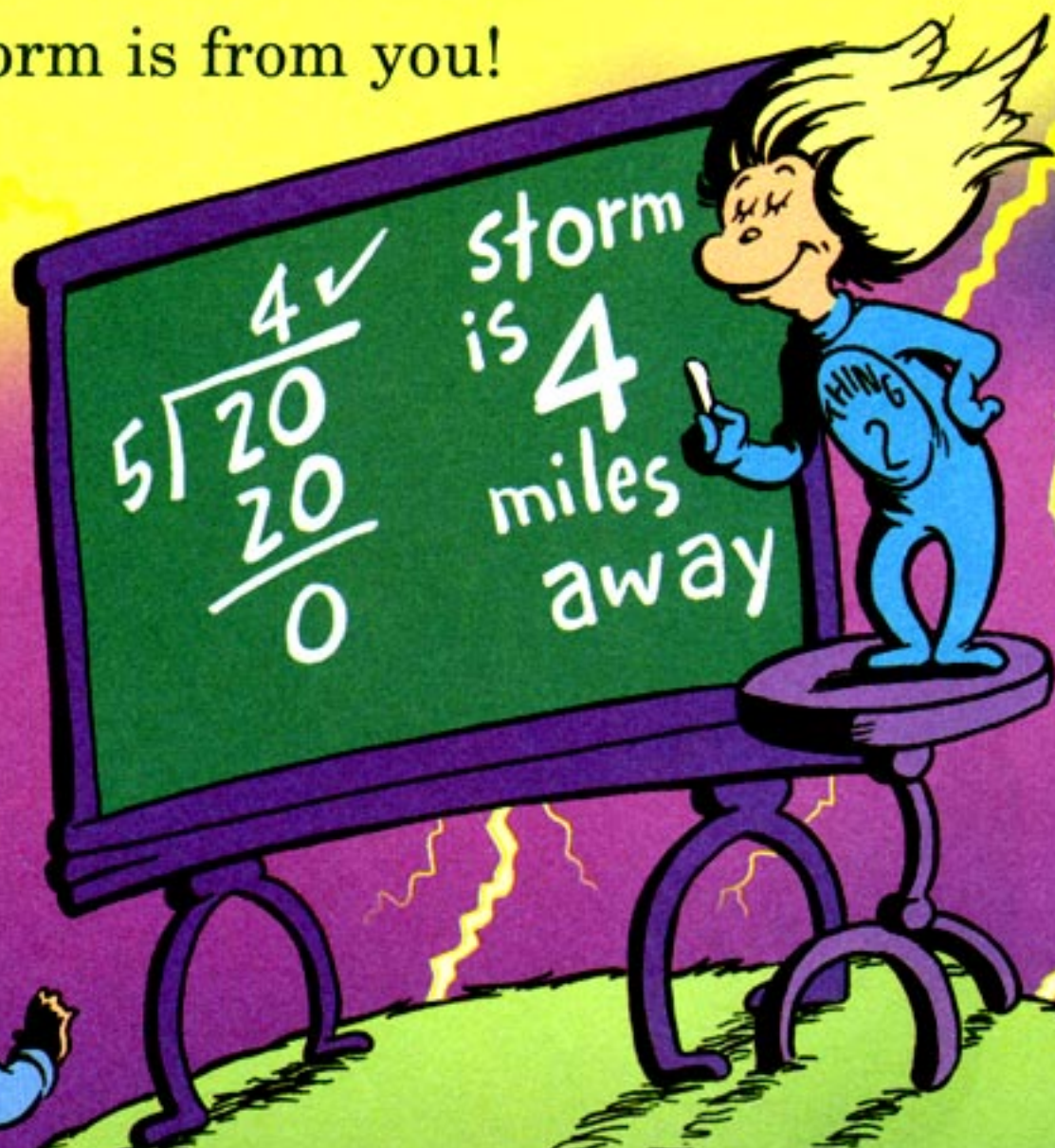
In a thunderstorm first
you will see lightning flash!
Next you'll hear thunder
go rumble and crash!

To find out how far
thunderstorms are from you,
try this easy trick.
It's a fun thing to do.

Start counting when you
see a lightning bolt flash.
Stop counting when you hear
the next thunder crash.

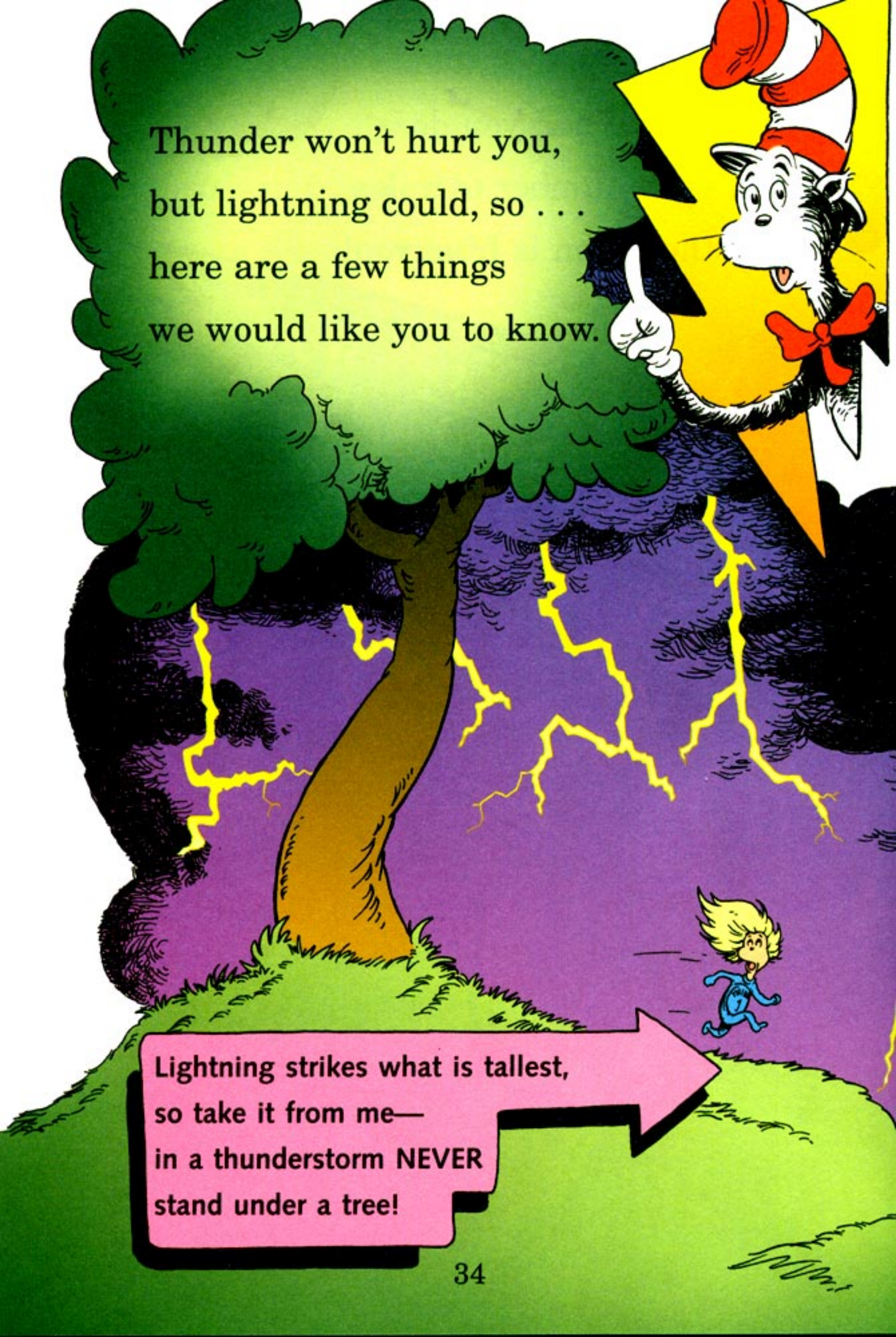


Take that number, divide
it by five. When you do,
that's the number of miles
that the storm is from you!



Lightning's electric!
One flash is so strong
it could light every light
in your house all year long.





Thunder won't hurt you,
but lightning could, so . . .
here are a few things
we would like you to know.

Lightning strikes what is tallest,
so take it from me—
in a thunderstorm **NEVER**
stand under a tree!

If you're out in a field
and have no place to go,
get as small as you can and
then scrunch way down low.



Stay inside your car.
If there's lightning around,
it flows over your car
and down into the ground.



If strong winds are blowing
with hard, driving rain,
you may be in the middle
of a HURRICANE!

Winds blow in a circle,
both night and day,
knocking lots of things down
that get in their way.



Here's a hurricane fact
that's a favorite of mine.
There can be lots of hurricanes
at the same time.

So each one gets a name—
Andrew, Agnes, or Dora,
Lenny, Dianna, Mitch,
Bertha, or Flora.

They each get a name
so there's never a doubt
which hurricane people
are talking about.

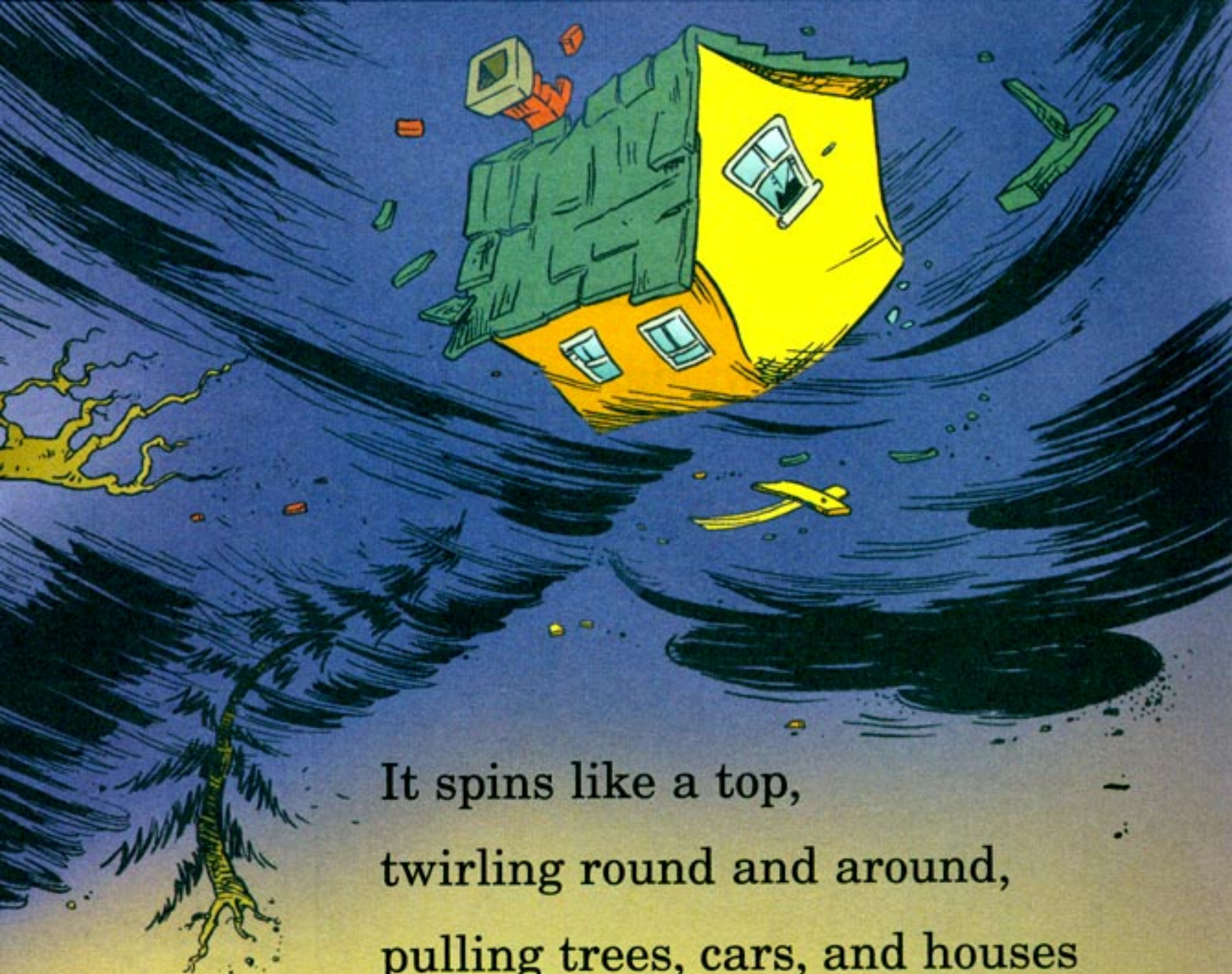
DORA

FLORA

Hurricanes blow things down,
but I learned from Thing Two,
tornadoes blow harder
than hurricanes do!

A tornado picks up
everything it goes by,
like a huge vacuum cleaner
way up in the sky.



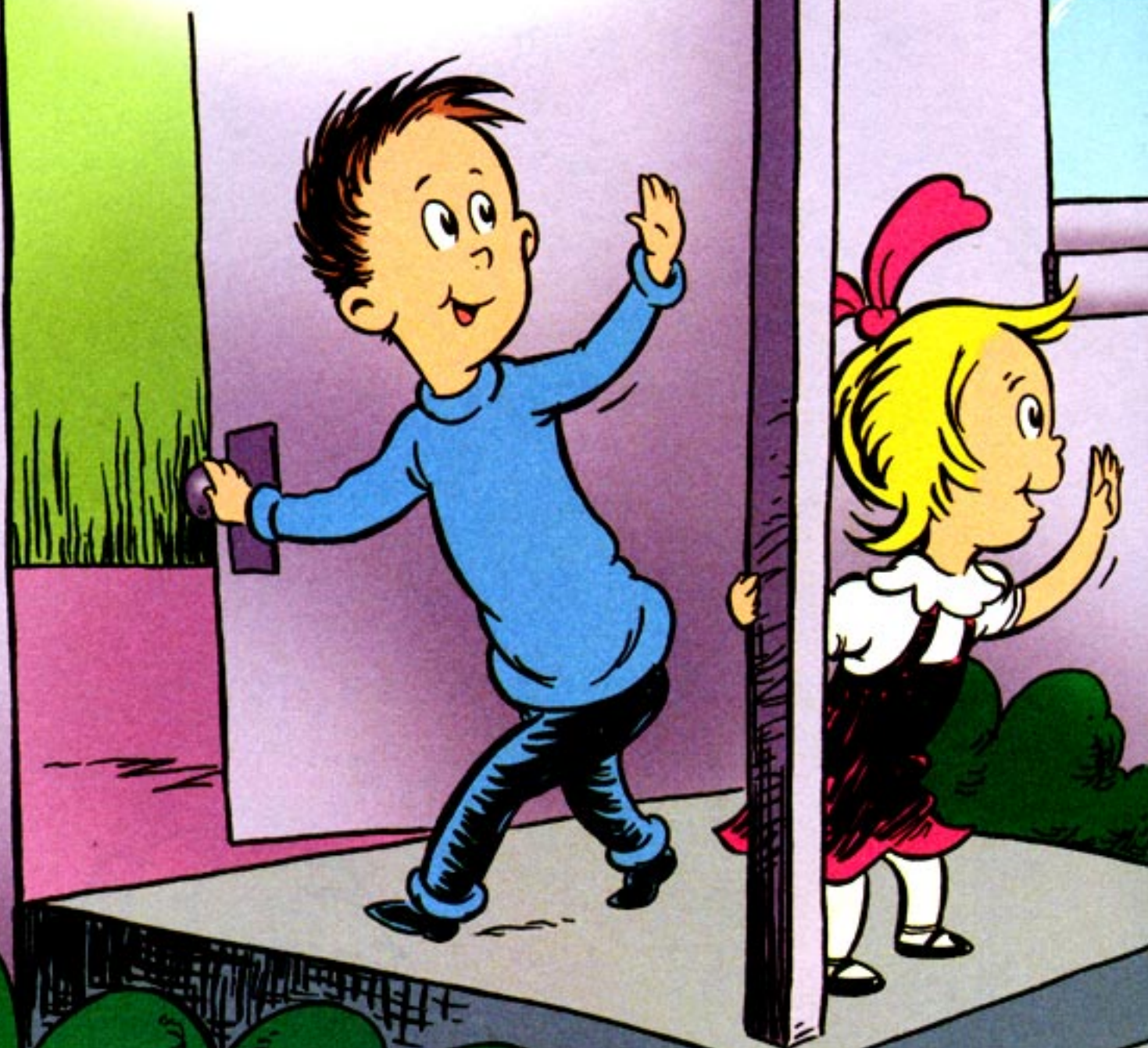


It spins like a top,
twirling round and around,
pulling trees, cars, and houses
right off of the ground!

Once in a tornado
a chicken was tossed.
She landed safely,
but her feathers were lost!

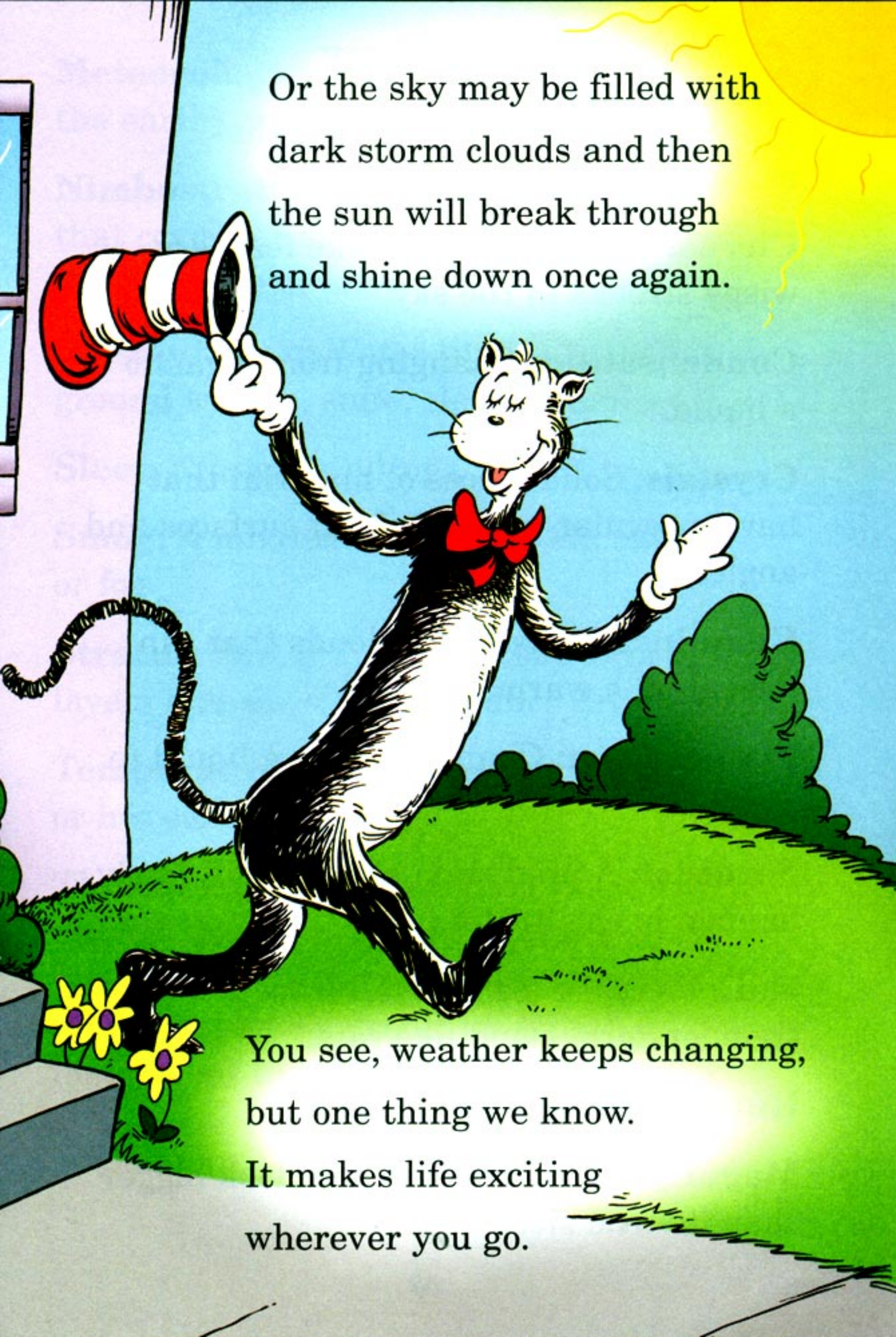


It's important to study
the weather! It's true.
But we cannot control it,
whatever we do.



The sun may be shining,
the sky a bright blue.
Then suddenly rain
will start falling on you.





Or the sky may be filled with
dark storm clouds and then
the sun will break through
and shine down once again.

You see, weather keeps changing,
but one thing we know.

It makes life exciting
wherever you go.

GLOSSARY

Anemometer: An instrument that measures the speed of the wind.

Cirrus: Clouds that look like feathery, wispy streaks in the sky.

Condensation: Changing from a gas to a liquid.

Crystals: Solid pieces of material that have a regular pattern of flat surfaces and angles.

Cumulus: Fluffy white clouds that can appear on a warm, sunny day.

Evaporation: Changing from a liquid to a gas.

Forecast: A prediction of what will likely happen in the future.

Hail: Pieces of ice that fall from a thunderstorm cloud like rain.

Humid: Damp, slightly wet.

Magnify: To make something look bigger than its true size.

Meteorologist: A scientist who studies the earth's weather.

Nimbostratus: Thick, low gray clouds that cover the sky, block out the sun, and produce rain or snow.

Precipitation: Water that falls to the ground as rain, snow, sleet, or hail.

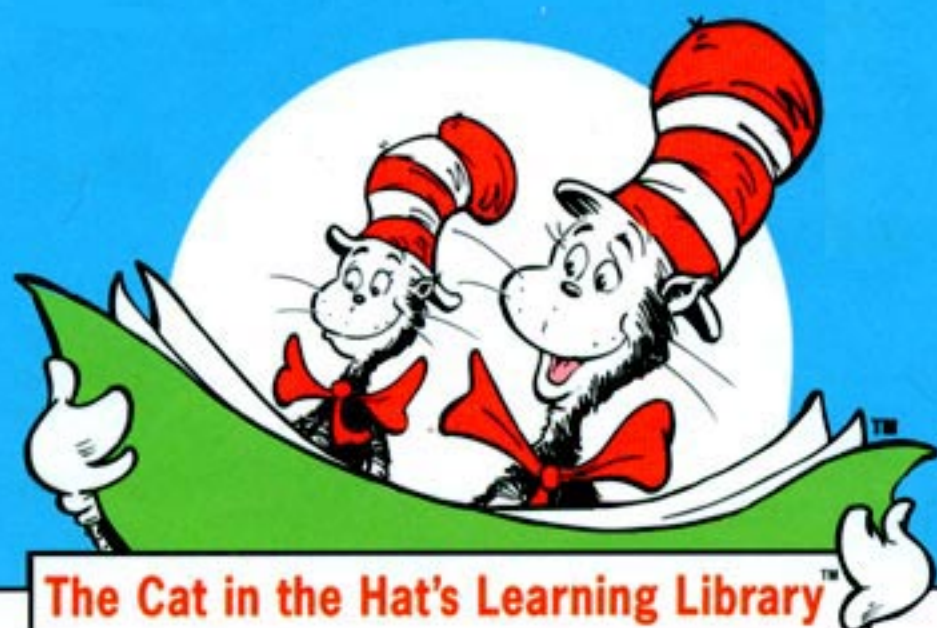
Sleet: Frozen raindrops.

Smog: A mixture of polluted air, smoke, or fog.

Stratus: Low gray clouds that form in layers and sometimes produce drizzle.

Temperature: The measure of how cold or hot something is.

Thermometer: A glass tube filled with alcohol that rises and falls as the temperature of the air around it goes up and down; an electronic or digital instrument that measures temperature.



The Cat in the Hat's Learning Library™

There is a big gap between “concept” books written for preschoolers and nonfiction that requires fluent reading skills. **The Cat in the Hat's Learning Library™** books introduce beginning readers to important basic concepts about the world we live in. They provide the critical foundations upon which complex facts and ideas can eventually be built. In addition, **The Cat in the Hat's Learning Library™** shows young readers that books can be entertaining and educational at the same time. This is a wonderful series!

—*Barbara Kiefer, Ph.D.,
Charlotte S. Huck Professor
of Children's Literature,
The Ohio State University*

LEARN TO READ. READ TO LEARN.



RANDOM HOUSE

www.randomhouse.com/kids

www.seussville.com

THE CAT IN THE HAT KNOWS A LOT ABOUT THAT! logo and word mark
™ 2009 Dr. Seuss Enterprises, L.P. and CITH Productions, Inc./Red Hat
Animation, Ltd. All rights reserved. The PBS KIDS logo is a registered
trademark of PBS. Both are used with permission. All rights reserved.
THE CAT IN THE HAT'S LEARNING LIBRARY logos and word mark are registered
trademarks of Dr. Seuss Enterprises, L.P. THE CAT IN THE HAT'S LEARNING
LIBRARY logos © Dr. Seuss Enterprises, L.P. 1998. All rights reserved.

US \$8.99 / \$13.99 CAN

ISBN 978-0-375-82276-6



9 780375 822766