

AIR POLLUTION FROM A TO Z



NORTH CAROLINA



1-888-RU4NCAIR
(1-888-784-6224)



Dear Students,

We at the North Carolina Department of Environment and Natural Resources hope you enjoy reading and coloring this book as you learn more about our planet and the decisions we all face.

We are studying and learning more each day. If we all work together, the future looks bright. Let's keep our air clean and clear!

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C

CAR-POOLING cuts down on the number of vehicles on the road. This is a great way to fight air pollution.

Car-pooling



A

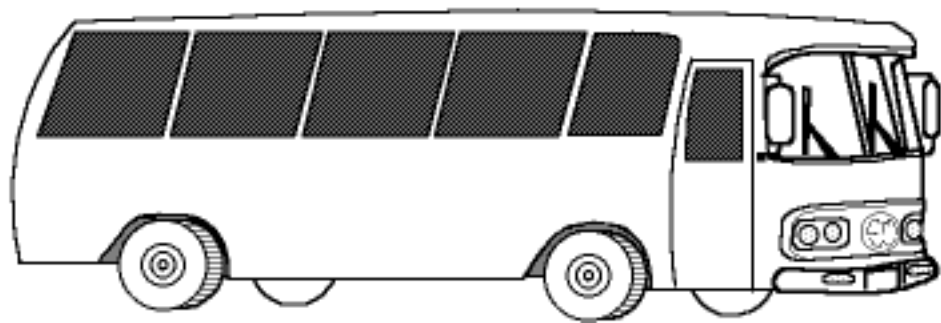
AIR AVENGER fights air pollution to help save our planet. We can help, too. Get the facts...the A to Z's of air pollution.

Air Avenger

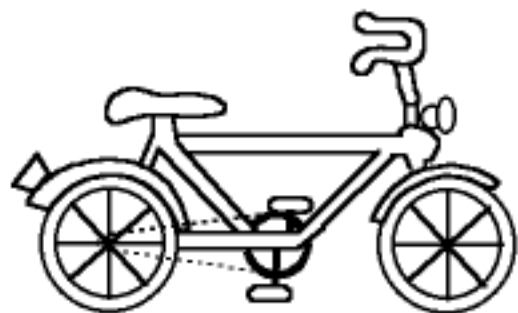
B

BICYCLING and riding the **BUS** can help fight air pollution. When you are not going far, ride your bike or walk. For longer distances, try the bus.

Bus



Bicycle



D

DUST from construction equipment can cause air pollution. Some of this dust can be prevented by watering it down a little.



Dust

E

Emissions

EMISSIONS from cars and trucks, factories, lawn mowers, pesticides, and some cleaning supplies can pollute the air we breathe.



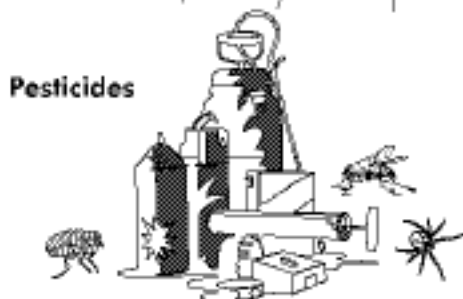
Leaf Blowers and
Lawnmowers



Factories



Cars and
Trucks



Pesticides



Cleaning
Supplies

F

Forests

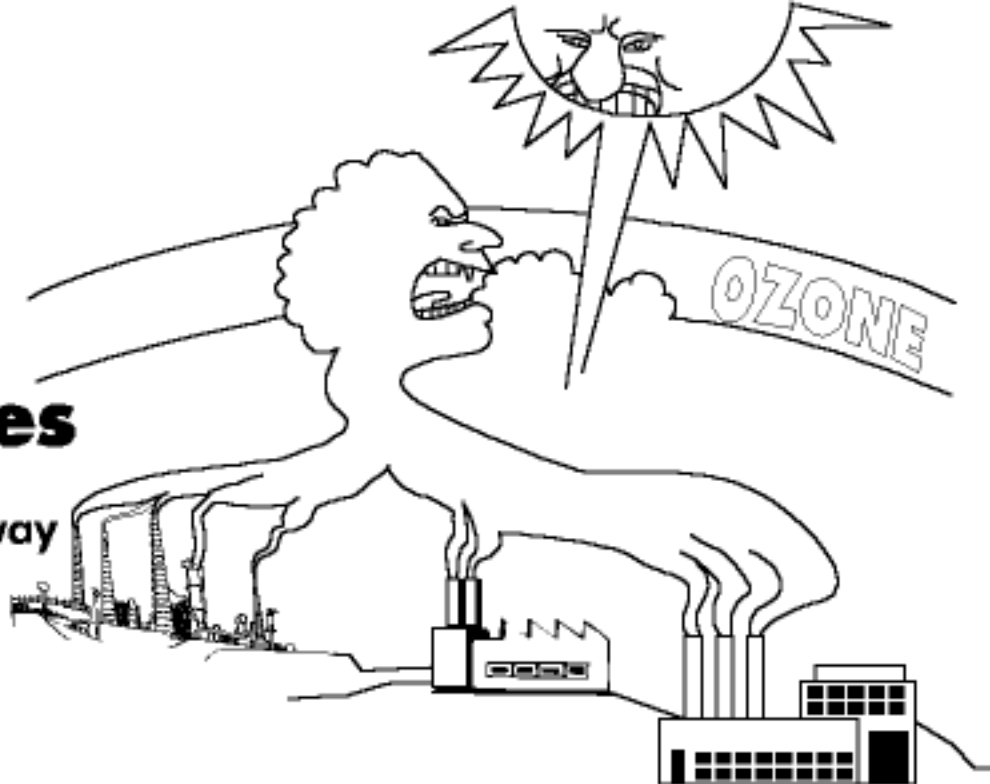
FORESTS produce the oxygen we breathe. They also are home to wildlife that enrich our natural environment.



G

Gases

GASES, like CFC's, eat away the good ozone layer around our planet.



H

HOT and **HUMID** weather is the worst time to exercise. Work out in the early morning or late afternoon when it's cooler and there is less bad ozone in the air.



Hot and Humid



Inhaling

INHALING(especially for older people and children) can be difficult when too much ozone is in the air.



J

Just look around

JUST LOOK
AROUND
yourself every
day to find ways
to help clean up
our air.



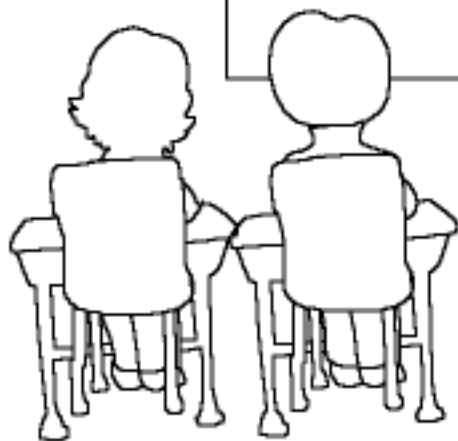
Learning

LEARNING
ways to save our
planet and the
air we breathe
can be fun!



Kids

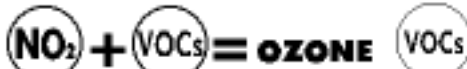
KIDS can make a
difference by spreading
the word! Tell your
parents and your friends
about the causes of air
pollution and ways to
reduce or prevent it
from harming us.



M

MAKE OTHERS AWARE of the ozone problem. Tell them ways to save energy and reduce pollution, like waiting to mow the lawn until after 6:00 pm, when ozone levels are lower.

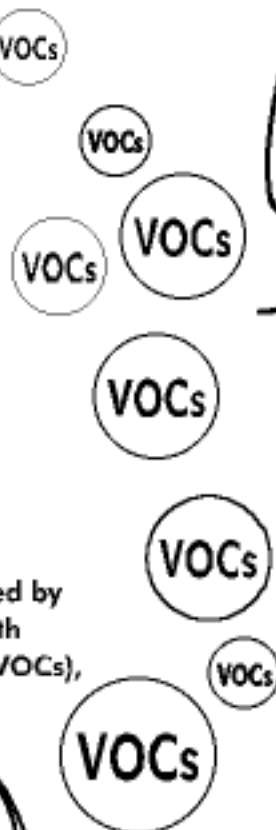
Make Others Aware



N

Nitrogen Oxides

NITROGEN OXIDES are emitted by cars and trucks. Combined with Volatile Organic Compounds (VOCs), they make the bad ozone.



O

Ozone

OZONE can be good or bad!

Stratosphere - GOOD OZONE protects us from UV rays.
Troposphere - BAD OZONE is unhealthy to breathe.



P

PREVENTION of air pollution makes the world a better place to live.

Prevention



QUIT burning the leaves that you rake up. Use them to make compost piles or mulch around your plants.

Q



Quit

R

RESEARCH may help scientists find ways to reduce air pollution and its bad effects.



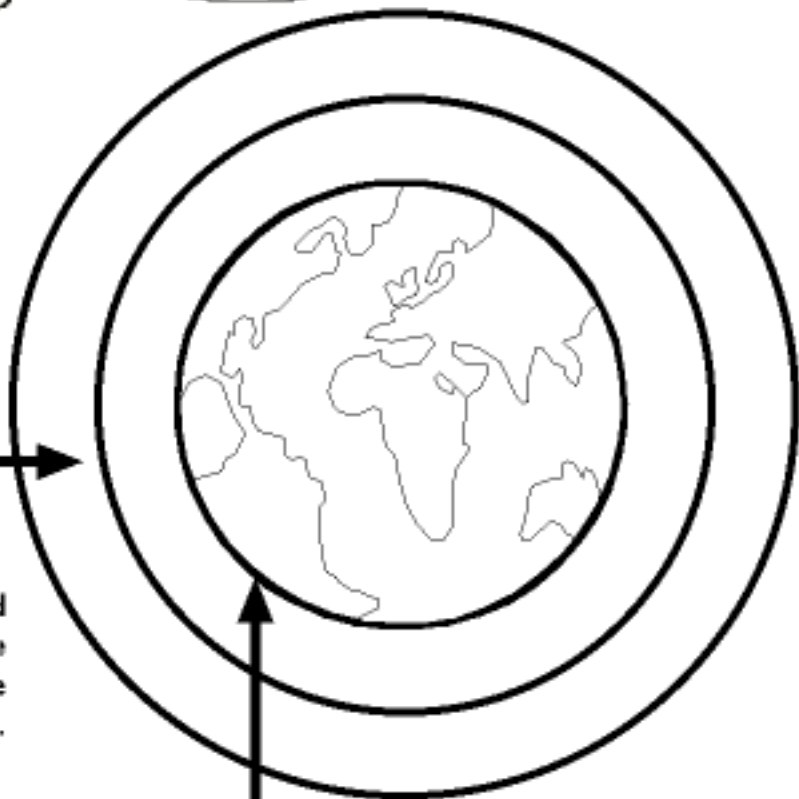
Research



S

Stratosphere

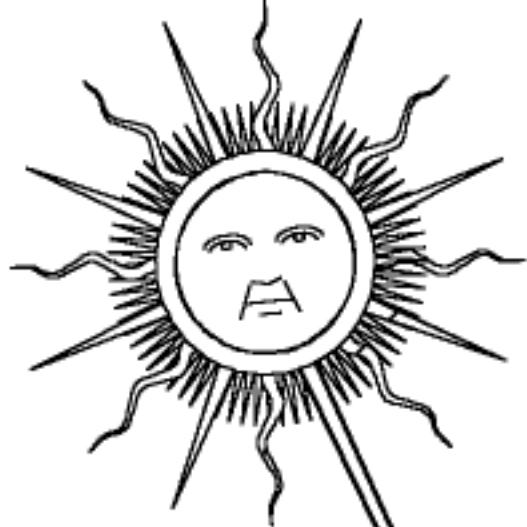
The **STRATOSPHERE** is the layer between 10 and 30 miles around the Earth. This layer holds the good ozone. Some pollutants eat away at the good ozone that protects us.



Troposphere

The **TROPOSPHERE** is the life supporting layer of air near the Earth. Too much air pollution causes bad ozone to form in the troposphere and that means trouble for us.

T



V

Volatile Organic Compounds

VOLATILE ORGANIC COMPOUNDS (VOCs) are fumes emitted from:

- inks and paints
- gas pumps
- print shop fumes
- cleaning fluids.

These chemicals can harm our environment.

U

Ultraviolet Rays

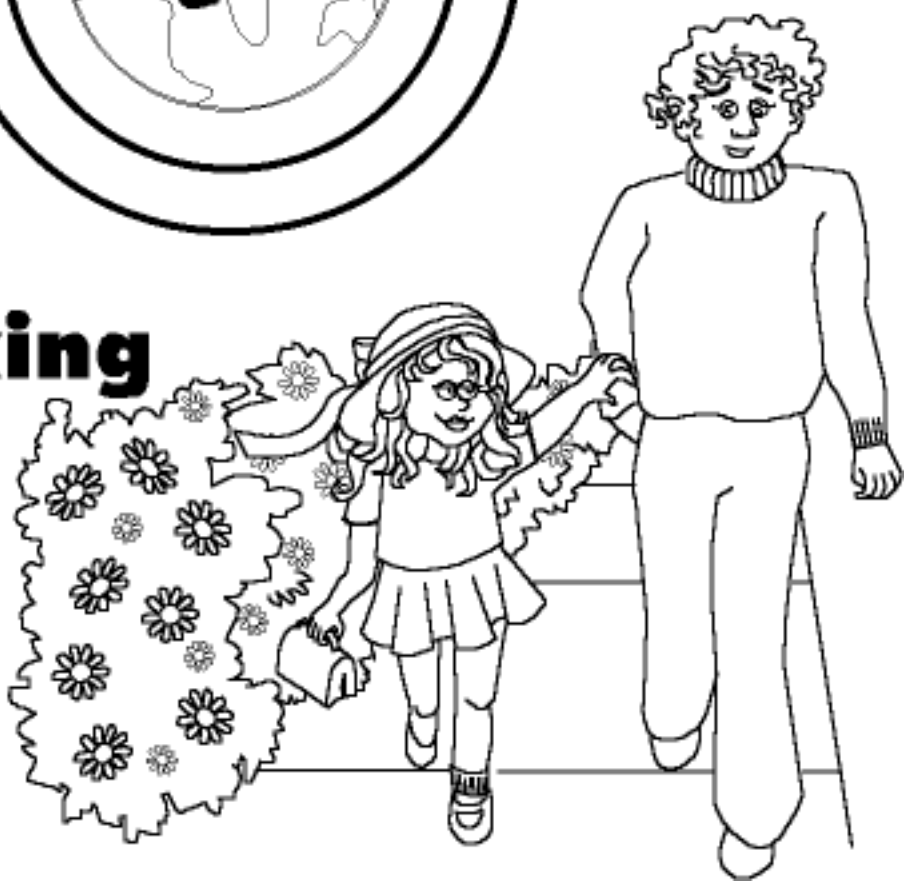
ULTRAVIOLET (UV) RAYS come from the sun. Small doses are beneficial. But without good ozone to shield us, UV rays can be harmful.



Walking

W

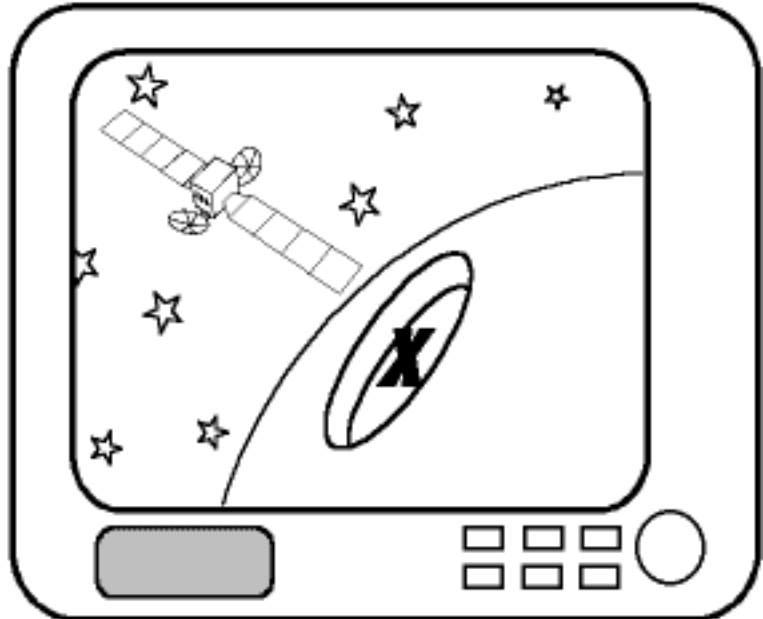
WALKING instead of driving a car is better for our bodies and our planet...and it's just plain fun!



X

X marks the spot

X MARKS THE SPOT on this view of our planet in which a satellite shows a hole in the good ozone layer.



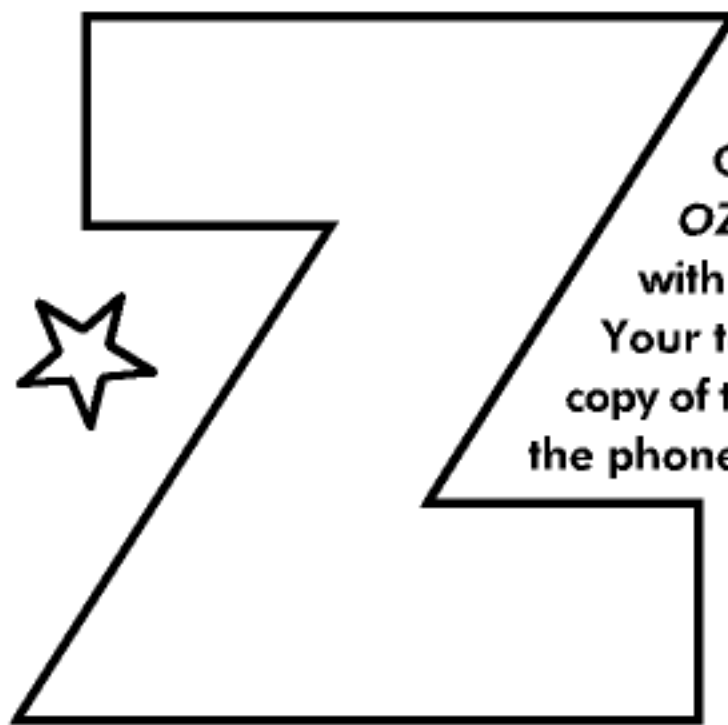
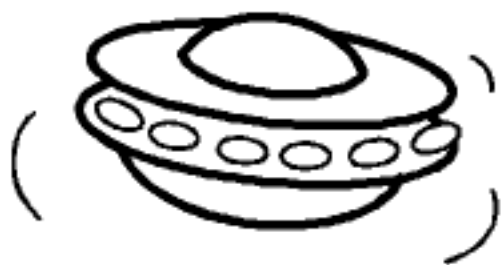
Y

YOU can make a difference...one day and one person at a time!



You





Zone?

Oh yeah, watch *THE OZONE ZONE* video with Norbert Ferguson. Your teacher can get a copy of this video by calling the phone number on the back cover.



DID YOU KNOW?...

- ...That there are two kinds of ozone?
- ...That riding a public transit bus is cool?
- ...That tuning up your car regularly is cool?
- ...That you can make a difference?

LOOK INSIDE TO FIND OUT MORE WAYS TO
HELP SAVE THE AIR WE BREATHE!

...**AND**...

IF THIS BOOK REALLY GETS YOUR ATTENTION,
CALL THE NUMBER BELOW TO FIND OUT MORE.
ALSO, CHECK OUT OTHER BOOKS IN YOUR
LOCAL LIBRARY FOR MORE INFORMATION. THEY
CAN TELL YOU HOW KIDS LIKE YOU CAN MAKE
A BIG DIFFERENCE!

NORTH CAROLINA



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James B. Hunt Jr., Governor
Wayne McDevitt, Secretary

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