
Huntington Park Institute of Applied Medicine (HPIAM)

Diesel Idling Reduction Project

Idling is more than just a waste of time!

STOP DIESEL IDLING!

Clean Air.
Healthy People.
Better Future.

TURN IT OFF. BREATHE EASY.

THE IMPACT:



Releases harmful emissions



Causes breathing problems & worsens asthma



Contributes to climate change



Wastes fuel and money

A FEW MINUTES
OF IDLING = BIG IMPACT

WHAT YOU CAN DO:

- ☒ Turn off your engine when waiting.
- ☒ Avoid long periods of idling near schools and homes.
- ☒ Encourage others to reduce idling.
- ☒ Support clean air initiatives!



TURN IT OFF TODAY FOR A CLEANER TOMORROW!





Stop Idling. Start Caring.

-----The Dangers of Diesel Idling-----

Why Its Dangerous:

1. Harms Our Health
2. Damages Our Environment
3. Affects our Community
4. Wastes Fuel & Money

Did you know?

Children breathe more air per pound of body weight than adults-making them **more vulnerable** to air pollution.

Idling for more than **10 seconds** uses more fuel than restarting your engine.

Causes:

Diesel exhaust contains harmful pollutants.

Idling releases greenhouse gases and pollutants that contribute to climate change. Idling burns diesel fuel doing no work. Pollution from idling disproportionately impacts children, the elderly, and people with health conditions.

WARNING: **IDLING VEHICLES** **ARE HARMING** **OUR COMMUNITIES**

Every minute a diesel truck or bus sits idling, **harmful pollution** fills the air our families breathe.



Children, seniors, and people with asthma are especially at risk. Studies show air pollution is linked to asthma, lung damage, autism spectrum disorders, leukemia, and other serious health issues in children.



DID YOU KNOW?



Diesel trucks and buses in California cannot idle for more than **5 minutes** in most areas.



Idling near schools, homes, hospitals, and childcare centers is restricted.



Unnecessary idling wastes **billions of gallons** of fuel every year.



TURNING OFF YOUR ENGINE HELPS:



Protect children's lungs



Reduce pollution in our neighborhoods



Improve community health



Save fuel and money



SEE IDLING? REPORT IT!

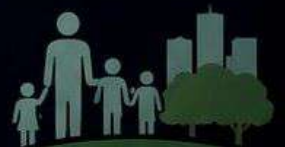
If you see diesel trucks or buses illegally idling near schools or neighborhoods, report it:



1-800-END-SMOG
(1-800-363-7664)



SMALL ACTIONS CAN MAKE A HUGE DIFFERENCE.
TURN IT OFF. PROTECT OUR AIR. PROTECT OUR FUTURE.



Larchmont High School

Diesel Idling Reduction Project

DID YOU KNOW?



**JUST BY KEEPING YOUR ENGINE ON WHILE PARKED,
YOU CONTRIBUTE TO:**

1400

yearly premature
deaths

15K

yearly asthma
attacks

\$28B

in annual losses in
California

900

additional cancer cases
per million LA residents

**IF YOU SEE AN IDLING TRUCK, CALL
1-800-END-SMOG
YOU COULD SAVE A LIFE.**



DIESEL EXHAUST HARMS CHILDREN

Truck Idling causes LUNG CANCER and
ASMTHMA in School Children

REPORT IDILING TRUCKS

1-800-CUT-SMOG





LAS EMISIONES DIÉSEL ENFERMAN A LOS NIÑOS

El ralentí del camión causa CÁNCER DE
PULMÓN y ASMA en niños

REPORTA CAMIONES EN REPOSO
(1-800-288-7664)





DID YOU KNOW...

YOU ARE EXPOSED TO

CANCEROUS MATERIALS

EVERYDAY?



Sapin's Honors
Environmental Science
Class

Health risks of diesel pollution



- Chronic bronchitis
- Lung cancer
- Breathing difficulties
- Heart disease
- Stroke
- Asthma attacks
- Eye, nose, and throat irritation

Why is idling dangerous to your health?

Idling diesel powered vehicles **releases more dangerous compounds** into the air than **driving** them.

Idling engines are too cold to burn off most **soot** and **diesel particulate matter**.



Diesel powered trucks, buses, and other large vehicles release pollution into the air.

- Long-term exposure increases lung cancer risk by about 40%
- Living near heavy traffic roads can increase asthma risk in children by up to 30–50%



5-minute rule:

Large diesel vehicles (school buses, etc) cannot idle their primary engine for more than **5 consecutive minutes**.



If you see an idling vehicle, protect your health by calling:

1-800-CUT-SMOG

FEELS THE AURA



DID YOU KNOW...

YOU ARE EXPOSED TO

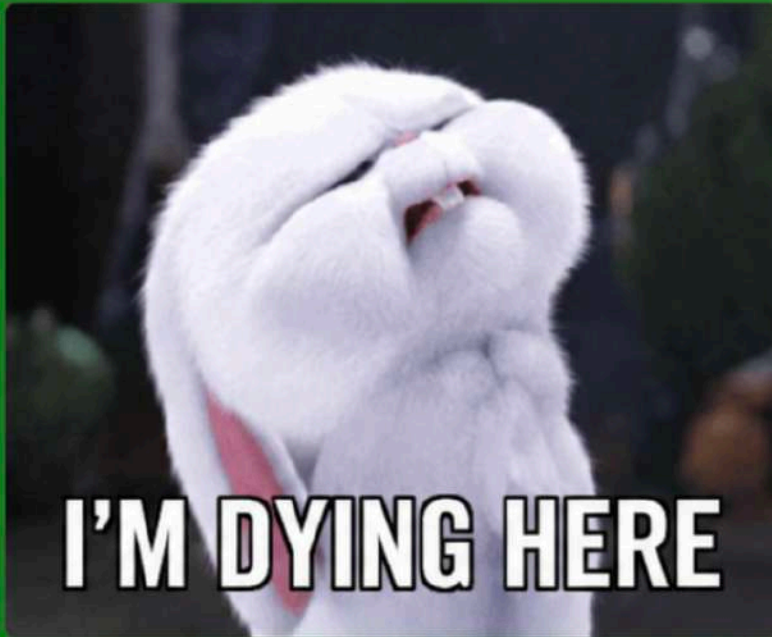
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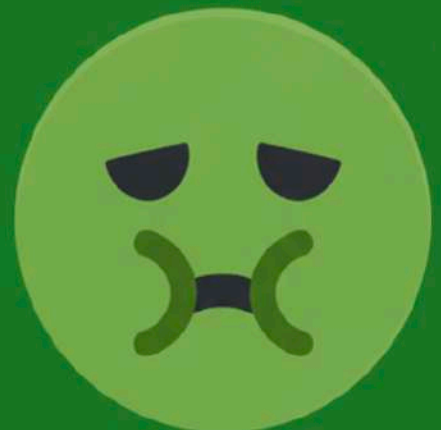


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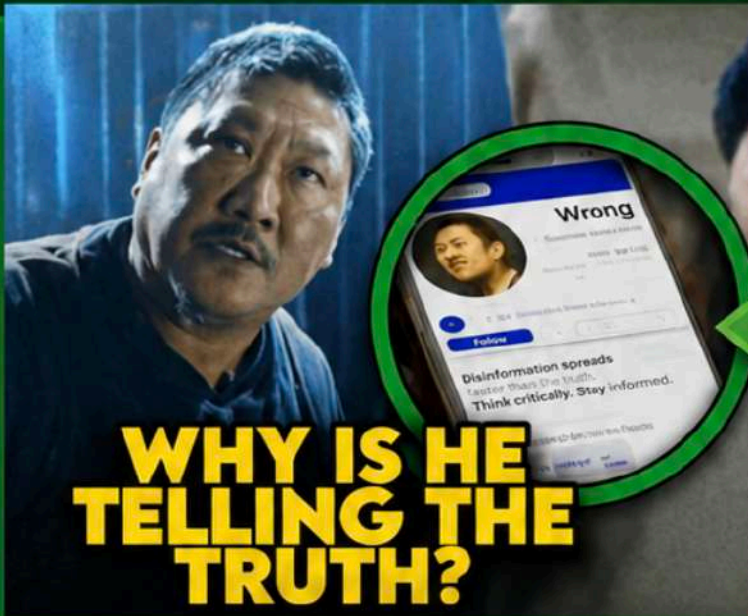
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1-800-CUT-SMOG
FEELS THE AURA

WHAT IS DIESEL IDLING?



1. What Is Diesel Idling?

Diesel idling happens when trucks, buses, or other diesel vehicles keep their engines running while parked or not moving. Many vehicles idle during deliveries, loading, or waiting periods.



2. Why Is It Harmful?

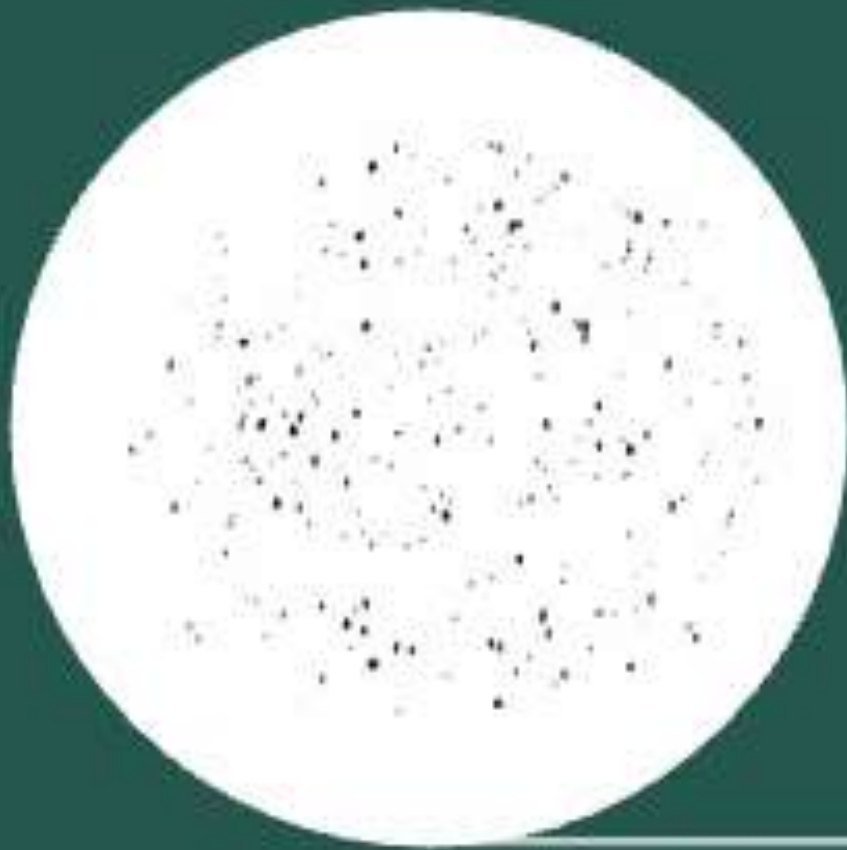
Diesel engines release harmful pollutants like PM2.5, nitrogen oxides, and carbon dioxide. These pollutants can damage air quality and contribute to asthma and lung disease.



3. Where Does It Happen?

Diesel idling commonly occurs near schools, warehouses, ports, parking lots, and construction sites where trucks and buses wait for long periods of time.

HEALTH & ENVIRONMENTAL IMPACTS OF DIESEL IDLING



1. Health Effects

Diesel exhaust contains tiny particles called PM2.5 that can enter the lungs and bloodstream. Exposure may cause asthma attacks, coughing, headaches, and breathing problems.



2. Environmental Damage

Diesel pollution contributes to smog, poor air quality, and climate change. Excessive idling also wastes fuel and increases greenhouse gas emissions.



3. Who is most affected?

Children, seniors, and people with asthma are especially vulnerable to diesel pollution. Communities near highways, schools, and warehouses often experience higher exposure levels.

SOLUTIONS & COMMUNITY ACTION



1. Turn Off Engines

Drivers can reduce pollution by turning off diesel engines when parked or waiting. This helps save fuel and improve air quality.



2. Create No-Idling Zones

Schools and businesses can place "No Idling" signs near parking lots and pickup areas to encourage cleaner and healthier environments.



3. Use Cleaner Transportation

Using cleaner vehicles and reducing unnecessary driving can help lower diesel pollution and protect the environment.

DIESEL EXHAUST

Clean Air Improves Health!

Dangers

Strong or visible fumes and larger vehicles, like trucks and buses, are identifiers for diesel exhaust emissions.

Levels

Grade 1: Mild Toxicity

Grade 2: Moderate toxicity

Grade 3: Severe toxicity

Grade 4: Life-Threatening toxicity

Grade 5: Death



What you can do

- Spread the word
- Support stricter ant-idling laws
- To report unneeded vehicle idling, call:

1-800-288-7664

DIESEL EXHAUST

A HARM THAT WE CAN'T IGNORE



THE DANGERS:

- Strong or visible fumes, and larger vehicles like trucks and buses are identifiers for diesel exhaust emissions
- Causes Exacerbated Asthma Symptoms and Lung Cancer

THE STATISTICS:

- Diesel emissions kill around 38,000 people yearly
- Trucks and buses release up to 21 pounds of CO₂ each hour
- Diesel exhaust contains more than 40 different harmful toxins

WHAT YOU CAN DO:

- Spread the word
- Support stricter anti-idling laws
- To report unnecessary vehicle Idling, call: 1-800-952-5588

Stop Idling

TURN OFF ENGINES!

IDLING HURTS OUR HEALTH. TURNING OFF YOUR ENGINE HELPS OUR COMMUNITY

Diesel

Diesel exhaust contains carcinogenic particles threatening your health and the community.



The dangers:

Idling a diesel engine is highly discouraged as it wastes fuel, accelerates internal engine wear, and clogs expensive emission systems. Extended idling also releases toxic pollutants that contribute to smog and severe respiratory issues. Modern diesels are built to warm up under load and should not be left to idle for long periods.

Statistics:

- School buses in the United States travel about 4 billion miles every year and transport more than 25 million children each day.
- The EPA says diesel exhaust is considered "carcinogenic to humans," meaning it can increase the risk of cancer.
- Children are affected more by diesel pollution because their lungs are still developing and they breathe faster than adults.

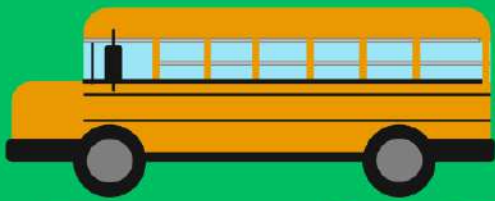


How to play your part:

- Turn off engines when waiting
- Put up anti-idling signs
- Use cleaner buses and vehicles
- Teach people about diesel pollution
- Follow anti-idling rules near schools
- Keep vehicles well maintained
- Reduce pollution to protect health



Anthony Dubon Your part matters!



Save your children!

Diesel Idling Needs To Stop!

Call **1-800-END-SMOG** after 5 minutes of idling

WHY?

According to UC Davis, Diesel Trucks emit 11 Million Tons of CO₂ each year while idling, this results in diesel particles. Diesel particles are linked to respiratory disease in children. Children are more susceptible to respiratory diseases.

How YOU Can Help!

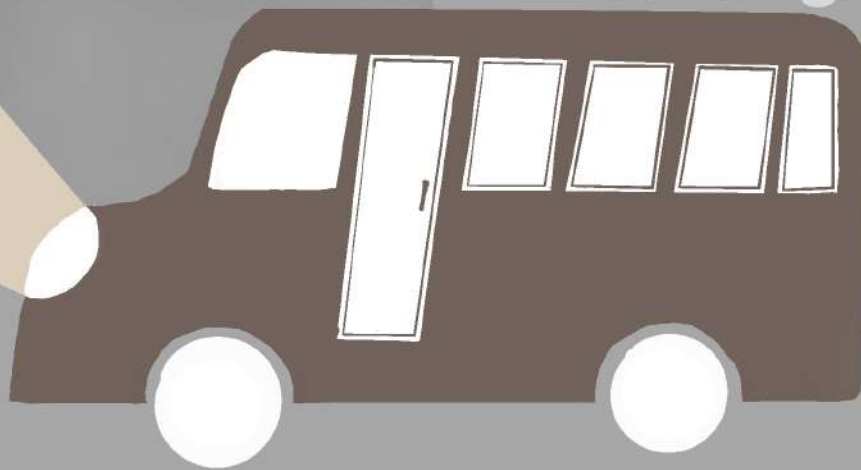
- Call the number above to report idling trucks
- Share this information with others
- Write letters to Heather Hutt, local District 10 Representative to help stricter laws be put into place



Diesel exhaust impacts your health.

Even a few minutes of idling can harm our
health and environment.

Please **turn off** your
engine while
waiting.



children who ride diesel school buses for a long time may breathe in up to four times more diesel pollution than other people. diesel exhaust causes respiratory diseases and may even increase the risk of cancer. reducing idling can help lower air pollution and protect public health.

Learn more about anti-idling laws : California Air Resources Board (CARB)

Report excessive idling: (866) 634-3735 /diesel.complaints@arb.ca.gov

STOP IDLING

MAKE SURE TO TURN OFF
ENGINE!!



Dangers:

- Can cause breathing problems like coughing & asthma.
- Long term exposure can lead to heart disease & lung cancer.

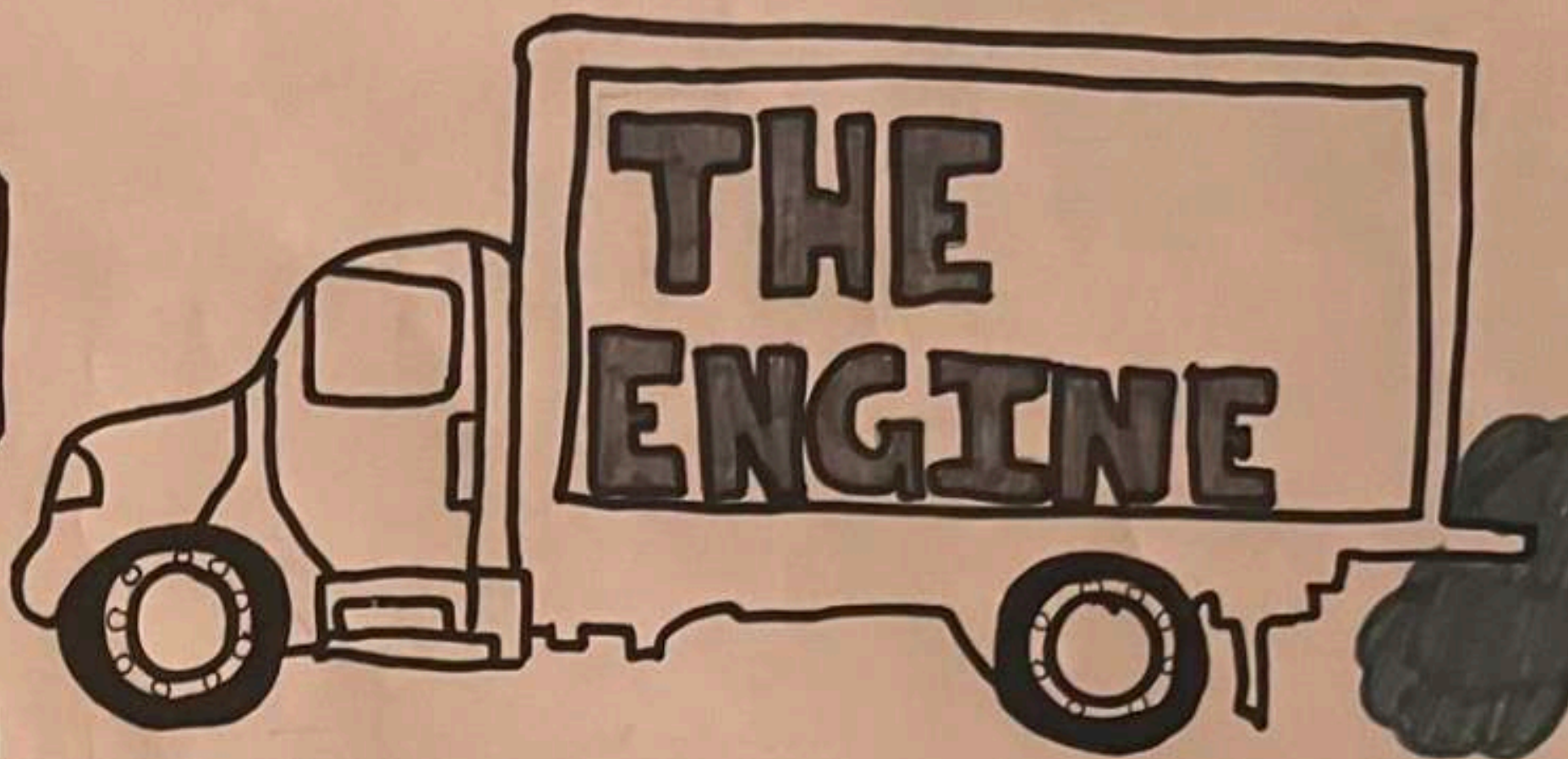
Statistics:

- People exposed to diesel exhaust have a higher risk of developing lung cancer
- Diesel pollution causes about 14,000 early deaths in the U.S. each year.

What can we do?

CALL - 1-800-cut-smog

- Use electric buses
- Follow the law
- Regularly maintain buses
- Install Filters



**IDLE
LESS**

Encourage
others to turn off
their engines too!

When engines idle, they release harmful pollutants into the air. This affects our health and puts us at a higher risk for poor health conditions.

Turning the engine off when parked makes a **HUGE** difference.

TURN YOUR ENGINE OFF WHEN:

- ✓ You're parked
- ✓ You are waiting for someone or loading a truck
- ✓ You are stopped for a certain amount of time



-HARMS-

Health
Impacts: Exhaust from idling engines contains pollutants that can cause asthma attacks and serious health issues.

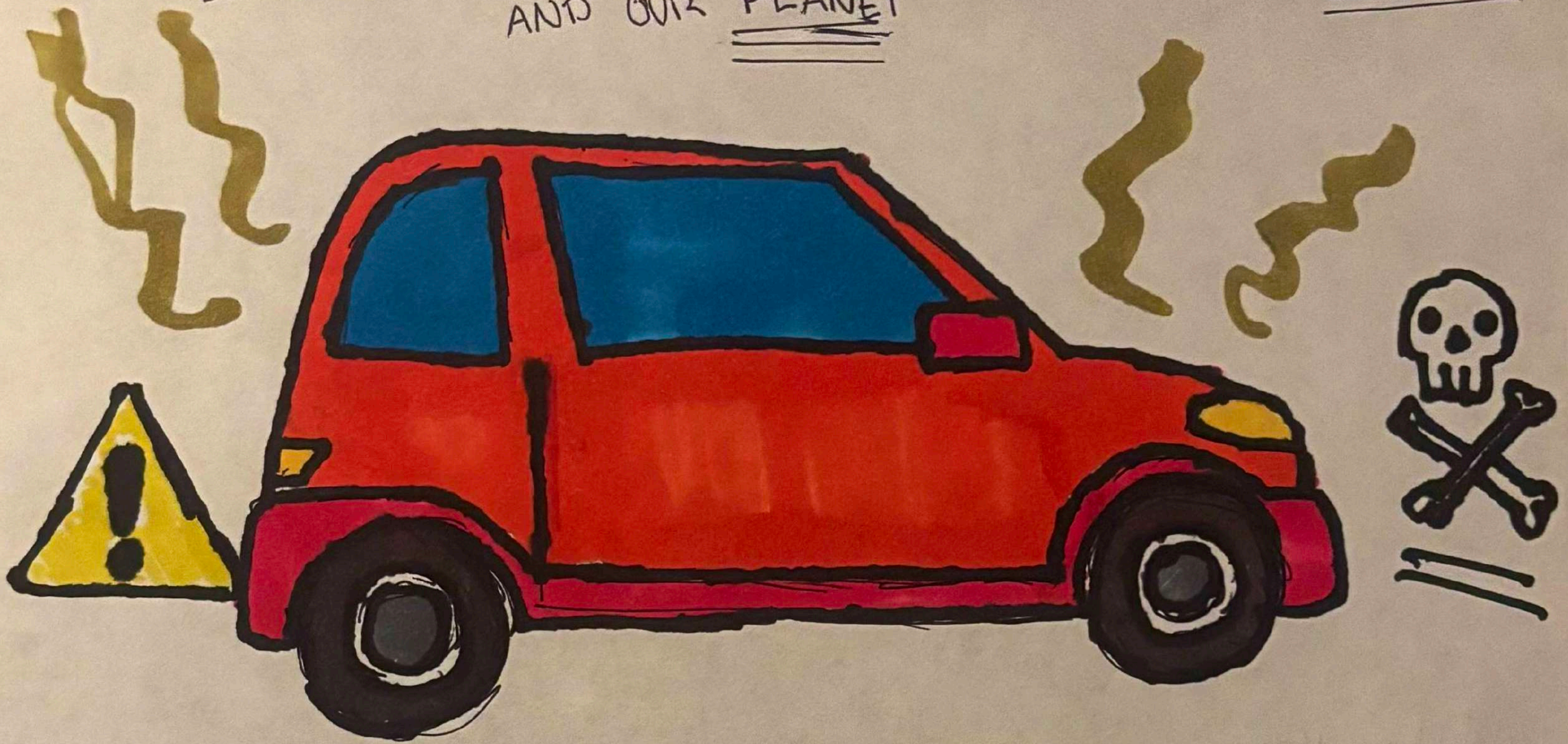
Air Pollution: Idling engines release pollutants that contribute to smog and poor air quality.

Environment: Exhaust emissions contribute to climate change & harm our environment.

**HELP
SAVE
OUR
ENVIRONMENT**

STOP HARMING OUR KIDS

DIESEL EXHAUST AND VEHICLE IDLING IS HURTING OUR CHILDREN
AND OUR PLANET



DIESEL EXHAUST AND IDLING

WAYS TO PREVENT/REDUCE IT

What is it? Diesel exhaust is air pollution made up of tiny particles & gases released from diesel engines (buses, trucks, & construction equipment).

What is idling? Idling means a vehicle's engine is running while the vehicle is not moving, which creates unnecessary diesel exhaust.

Why children? Children are especially vulnerable because their lungs are still developing, they breathe faster than adults, & take in more air compared to their body size.

BREATHING DIESEL EXHAUST CAN HARM CHILDREN'S HEALTH!! This increases the risk of Asthma attacks, coughing, breathing problems, & long-term lung & heart health effects.

CARPOOL

Carpooling reduces diesel exhaust since it is one ~~person~~ vehicle taking multiple people. The fewer vehicles, the better!

LITTLE TO NO DIESEL USE

Using smaller vehicles or electric vehicles reduces diesel exhaust. Electric vehicles especially help reduce exhaust since they don't need diesel fuel to function.

ONLY NECESSARY DRIVING

Only driving when really necessary can reduce diesel impacts a lot! The less you are in an active car, the less diesel exhaust is going into the air.

REDUCE!
USE ! SMOG

ELECTRIC QUIT

DIESEL BUSES



1-800
-CUT-SMOG

HEALTH AUTHORITY WARNING



DIESEL FUMES ARE KILLING YOUR CHILDREN.

DIESEL EXHAUST IS A KNOWN HUMAN CARCINOGEN — WHO / IARC 2012



Children are smaller — they inhale **MORE** poison than you do.

70%

OF CA CANCER RISK FROM
TOXIC AIR IS FROM DIESEL

Source: CAIC

46X

EPA CANCER RISK EXCEEDED
INSIDE SCHOOL BUSES

Source: UC Berkeley

1,400

PREMATURE DEATHS PER
YEAR IN CA FROM DIESEL PM

Source: CAIC

WHAT IS A VIOLATION?

Visible black or dark smoke from exhaust pipe

Idling longer than 5 minutes (CA law)

Idling within 100 ft of a school or home

Non-compliant or unregistered diesel vehicle

HOW TO REPORT • TAKES 2 MINUTES

1

NOTE THE
PLATE NUMBER

2

RECORD
LOCATION & TIME

3

CALL OR TEXT
HOTLINE

4

OR SCAN QR TO
FILE ONLINE

CA DIESEL TRUCK HOTLINE

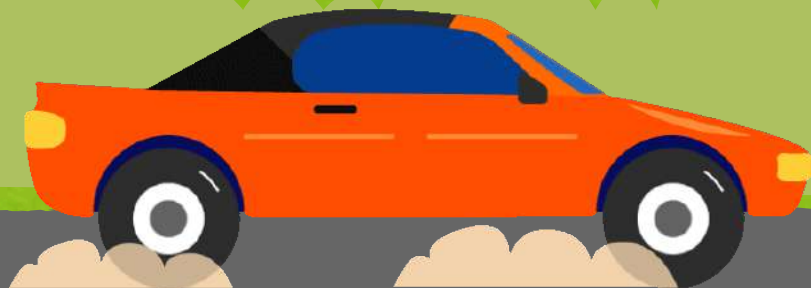
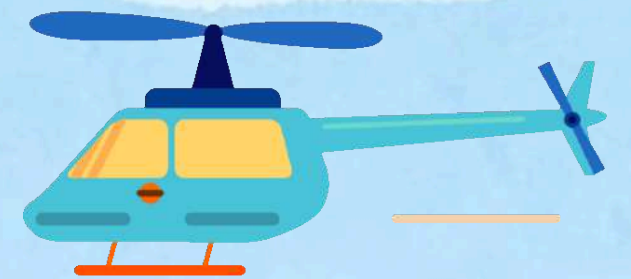
(800) 559-9247

Anonymous • Free • Call or text anytime

FILE REPORT
ONLINE
CARB.CA.GOV

DIESEL EXHAUST

ANAND, ELIOT, YIDONG, JACE



WHAT IS DIESEL EXHAUST?

Diesel exhaust is a mixture of gases, fine particles, and chemicals which includes nitrogen oxide and other harmful particles expelled from a diesel engine. Long term exposure can cause respiratory issues and contribute to air pollution.



HOW DOES IT EFFECT CHILDREN?

Children are the population most effected by diesel exhaust due to the constant exposure while riding school buses everyday.

Constant exposure could lead to major illnesses for children. This includes increasing the risk for asthma, lung disease, and cancer.





Van Nuys High School

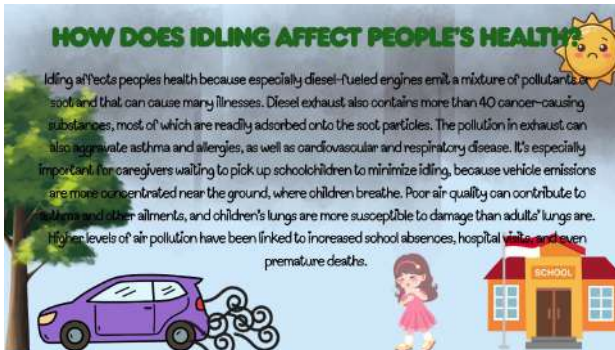
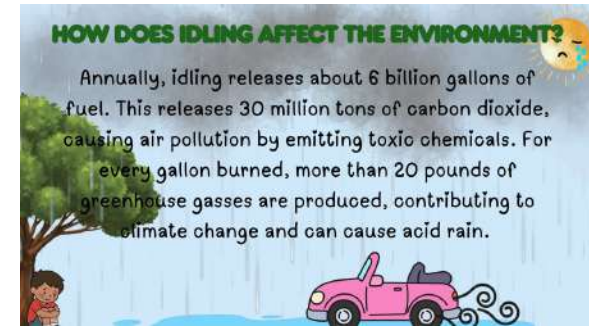
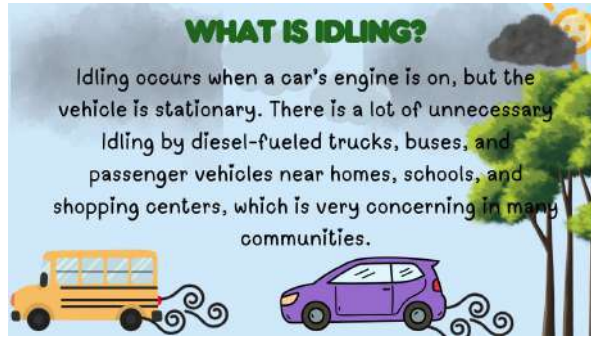
Diesel Idling Reduction Project



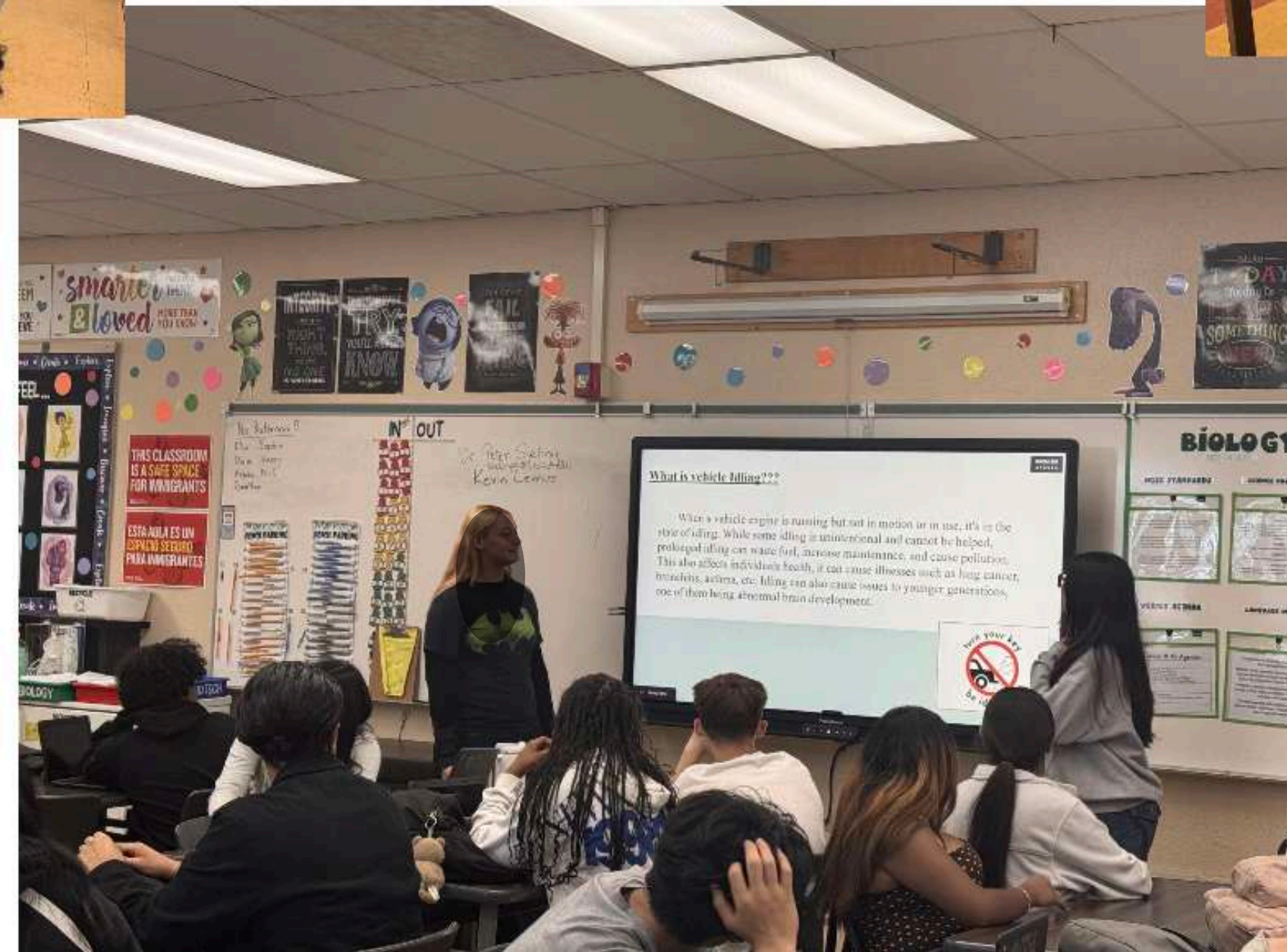
Poster Displayed at Main Entrance of School



Sample Student Presentation



Students Presenting to Students



Students Presenting at VNHS ARTS FEST



Idling; The Harmful Impact On The Environment and Human Health

By Ashley Escamilla, Mariam Feslyan



WHAT IS IDLING?

Idling is when the engine of a vehicle is running while the vehicle itself is not moving. This releases excess gas emissions that make up toxic smog and cause climate change, mostly from diesel operated trucks and buses. Diesel fuel contributes to the majority of smog of nitrogen compounds(NO_x), greenhous gas emissions, diesel particulate matter, and formaldehyde, all of which increase the levels of pollutants in the environment. Additionally, idling is also an effective way to waste gas and money. Idling for just a couple minutes can waste as much fuel as driving several miles. It's a big misuse on the money spent to fill up a vehicle's engine.



ENVIRONMENTAL IMPACTS

The environmental impacts of idling include air pollution, toxic air, smog, particulate matter in the air and on surfaces, and climate change. Smog is the most extensive form of air pollution, containing toxic air that is harmful to be exposed to as it can damage one's health and ecosystems. Particulate matter is in the air and on most surfaces, which can damage the environment around them, of which can be from students in schools to soils and plants. Climate change extremely alters how the planet operates due to the drastic changes of entire ecosystems from how seriously damaged they can get.



HEALTH IMPACTS

Idling vehicles emit harmful pollutants that can negatively impact human health. These emissions include particulate matter (PM), nitrogen oxides (NO_x), and carbon monoxide (CO). When exposed to these pollutants, it can lead to a range of respiratory and cardiovascular issues. For instance, when inhaling particulate matter, it can irritate the lungs, worsen asthma and bronchitis, and contribute to heart disease. If a nitrogen oxide is inhaled, it can inflame the airways and reduce your lung function, which is more common toward children. Carbon monoxide reduces the blood's ability to carry oxygen, which can be harmful and dangerous to individuals with heart conditions. These health issues can range from minor irritation in the respiratory, to serious and life-threatening conditions.



HOW TO LIMIT IDLING



A few ways to limit idling can be:

- To turn off your engine when stopped for more than 30 seconds.
- Avoid unnecessary long stops.
- Support anti-idling laws and campaigns.

Report when you see someone idling.



Citizens of the World

GRADES 6–8

Diesel Idling Reduction Project



**STOP
DIESEL
IDLING!**

**CITIZENS
OF THE WORLD
CHARTER SCHOOLS**

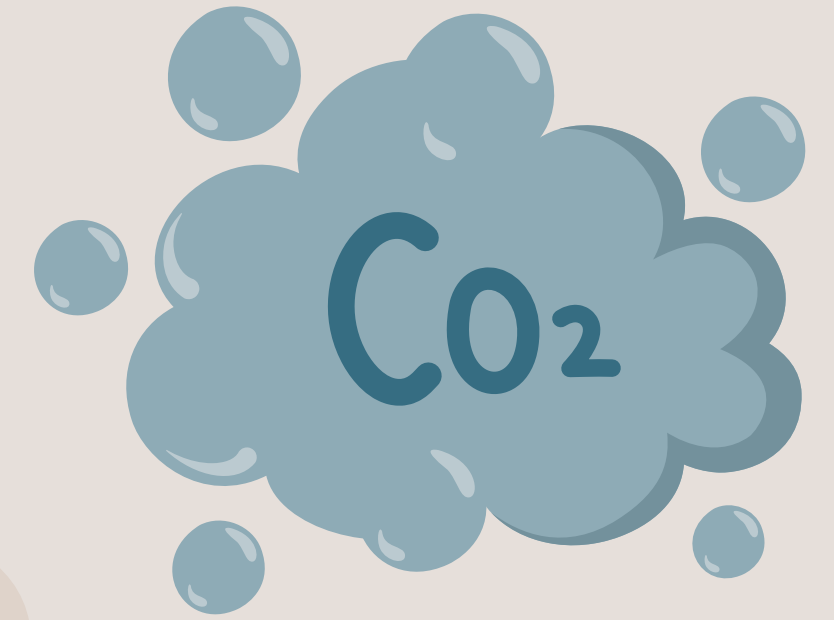
EAST VALLEY

WHAT IS IDILING?



It is turning
on a vehicle
and letting
the engine
run.

DIESEL EMISSIONS



1

What is it?

Diesel emissions are gas pollutants

?

?

Why is it an issue?

It is an issue because the gasses harm you

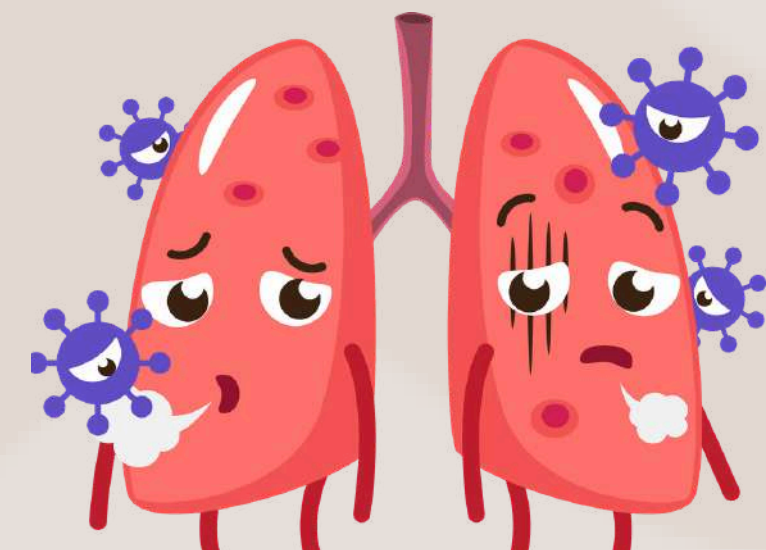
2



WHAT WE'VE LEARNED

- Idling can cause premature death
- It causes increased asthma
- Decreased lung function
- Hurts the environment
- Contributes to global warming
- Increased allergies
- Higher vulnerability to leukemia

Number one source of air pollution in many areas...
Air pollution has been linked to asthma and other respiratory problems.



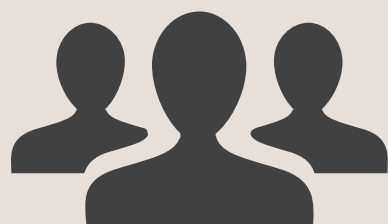
CHILDREN ARE ESPECIALLY VULNERABLE!

We are the future of our planet! We need to stop idling so we can protect ourselves and our planet.





USE YOUR VOICE!



COMMUNITY HEALTH

Community can come together to reduce idling by holding each other accountable. We need to protect children & the elderly



ENVIRONMENT

Be loud, tell others how we could help not just us but the environment.



SAVE RESOURCES

Inform! Idling wastes around 6 billion gallons of fuel each year!

FACTS!

Help educate yourself, others, and your community!

Diesel exhaust contains more than 40 cancer causing substances.

Deisel engine emissions are believed to be responsible for about 70% of California's estimated known cancer risk attributable to toxic air contaminants.

The amount of data that is currently accessible on ambient air pollution and children's health has significantly increased.

TAKE ACTION, NOW!



stopdieselidling

Stop Diesel Idling

 stopdieselidling