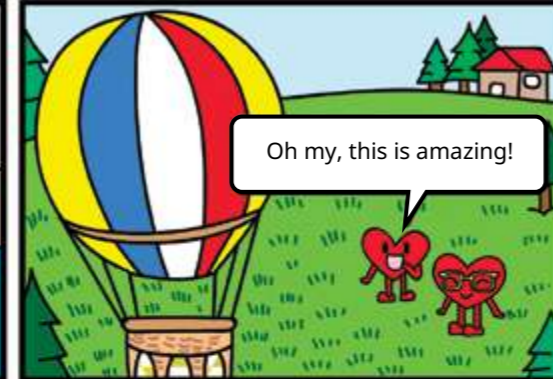


How I wish we can go on a hot-air balloon tour around the world!

Come on, I've got a surprise waiting outside.



Oh my, this is amazing!



Why are you bringing so many things?

These are all my daily necessities!



You mean you are not done yet?

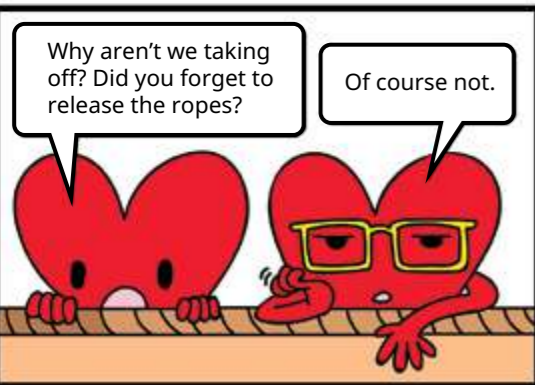
These are the last few pieces...



Great, you're finally done. Let's get going!

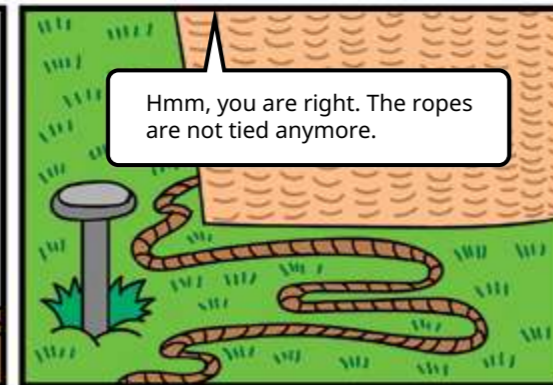


GO!GO!GO!



Why aren't we taking off? Did you forget to release the ropes?

Of course not.



Hmm, you are right. The ropes are not tied anymore.



Grrrr... don't ask me why! Please move your luggages down, now!

Oh yes, my luggages are indeed kind of heavy...

# småles matters

# BUG NEWS

## LITE

Summer 2021



Issue No. 02/2021

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Hej småles!

Hot breeze on the skin, sun in the eyes, grab your heart-shaped sunglasses because it's time for the Summer! Lots of people love travelling nowadays by aeroplanes, trains and ships but have you wondered how they travelled many centuries ago? Join us for an exciting journey starting from page 4.

Do you know travel behaviours can cause environmental impact such as air pollution to our planet? Check out page 19 to see what we can do to help.

We hope you learn fun things, and have a fun and refreshing Summer!

With Big Bug hugs,  
Sara

# Ancient mode of transportation

## Reed boat

Just as its name suggests, this boat with its signature pointy ends are made from bundles of reed tied together. It was commonly used in Ancient Egypt around 7,000 BCE but in some countries such as Peru, reed boats are still being used.



## Horse-drawn carriage

Chariots were invented as early as 3000 BC. The body of the chariot had two wheels and was pulled by a horse or two. It had the capacity to carry up to two people at one time.



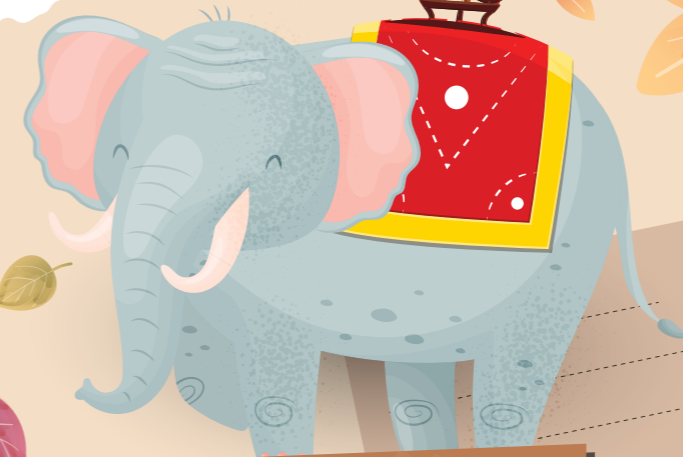
## Dog sled

Archaeological evidence dating back to 1,000 AD revealed that the Inuit people invented dog sledding and it was later widely used in the continent. Back then, it started off with just one dog pulling the whole sled!

## Elephant carriages

4000 years ago, elephants were trained for domestic and transportation purposes and today, they play a huge part in Thailand's tourism.

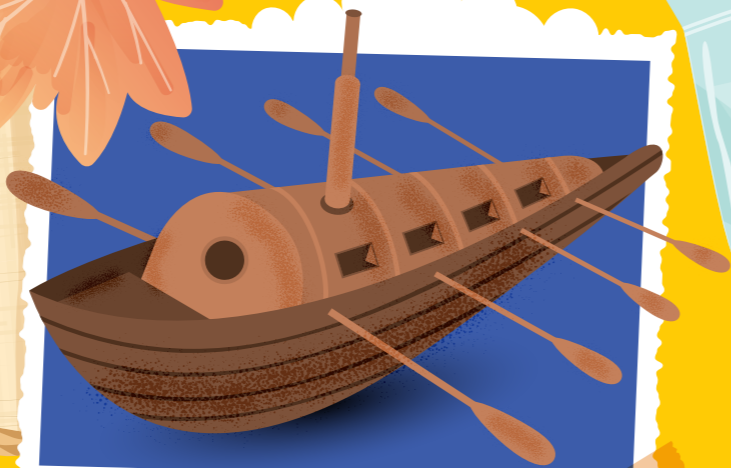
Sources:  
[http://www.iro.umontreal.ca/~vaucher/History/Prehistoric\\_Craft/](http://www.iro.umontreal.ca/~vaucher/History/Prehistoric_Craft/)  
[https://en.wikipedia.org/wiki/Reed\\_boat](https://en.wikipedia.org/wiki/Reed_boat)  
<https://www.horsejournals.com/life-horses/carriage-ride-through-history>  
<https://www.reuters.com/article/us-asia-elephants-factbox-1-idUSHO45368920071224>  
<https://www.guinnessworldrecords.com/world-records/first-domestication-of-elephants>  
<https://www.elephantsforever.co.za/elephant-domestication.html>  
[https://global.hurtigruten.com/destinations/norway/inspiration/attractions/history-of-dog-sledding/?\\_ga=2.170474408.901412619.1614246774-327563968.1614246774](https://global.hurtigruten.com/destinations/norway/inspiration/attractions/history-of-dog-sledding/?_ga=2.170474408.901412619.1614246774-327563968.1614246774)



# First Transportation Inventions

## First Submarine

In 1620, Cornelis Drebbel, the Dutch engineer, invented the first submarine that could submerge to 15 feet under the Thames river for up to 3 hours.



## First Rocket

In 1957, Sputnik 2, the first rocket was launched with a dog named Laika on board.



## First Air Balloon

In 1783, the Montgolfier brothers experimented the first hot air balloon flight up above Versailles, France. They even demonstrated the flight again to King Louis XVI.



## First Bullet Train

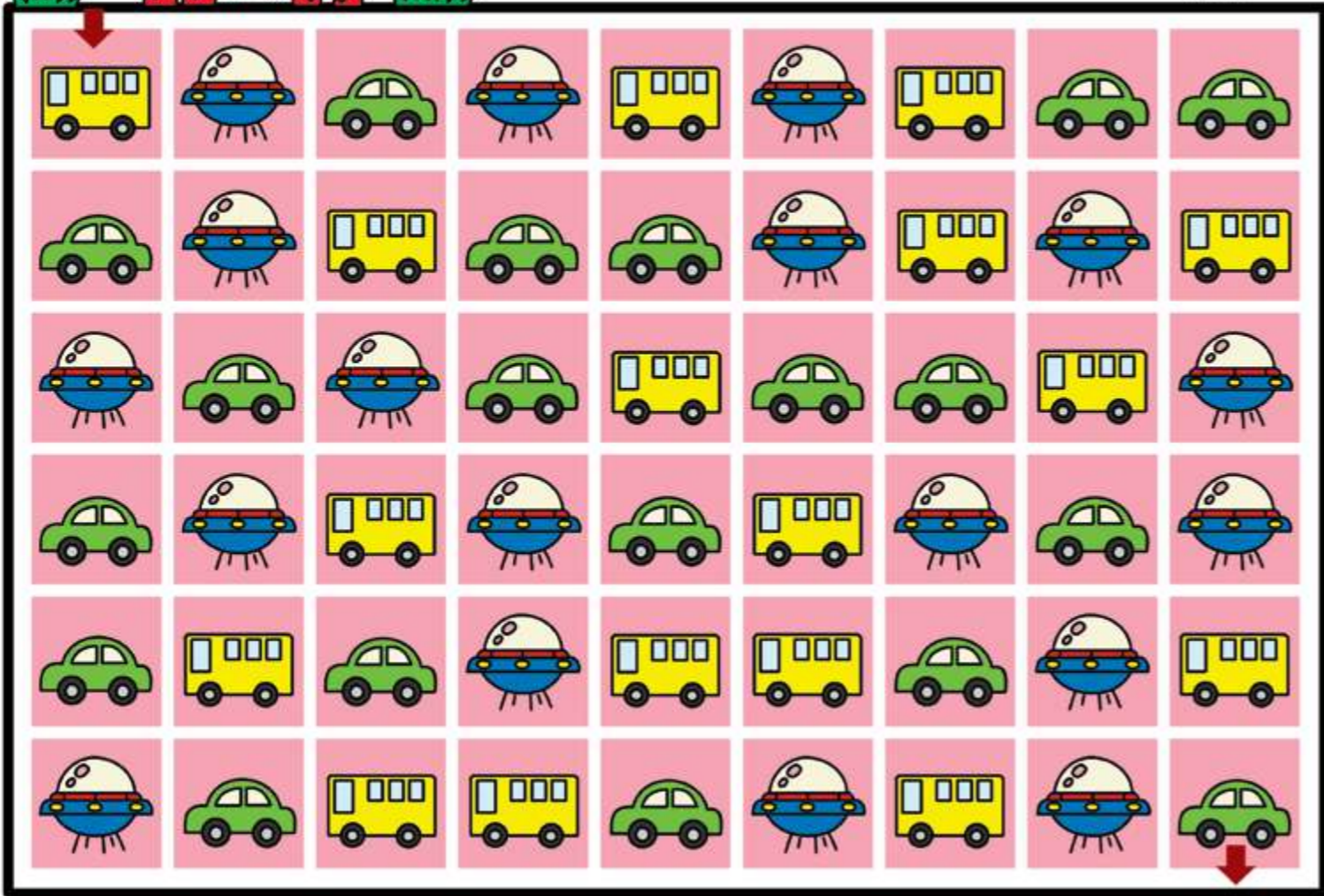
In 1964, the bullet train or Shinkansen was introduced with a speed of 210 km/h. Today, you can travel from Tokyo to Osaka within 2 hours and 30 minutes.



Sources:  
<https://newatlas.com/cornelis-drebbel-built-three-submarine-in-the-1620s-they-all-worked/3715/>  
[http://www.bbc.co.uk/history/historic\\_figures/drebbel\\_cornelis.shtml](http://www.bbc.co.uk/history/historic_figures/drebbel_cornelis.shtml)  
<http://en.chateauversailles.fr/discover/history/key-dates/first-hot-air-balloon-flight>  
<https://www.nasa.gov/feature/60-years-ago-the-first-animal-in-orbit>  
<https://economictimes.indiatimes.com/industry/transportation/railways/everything-you-wanted-to-know-about-bullet-trains/when-was-the-first-high-speed-network-built/slideshow/60731139.cms>  
<https://www.jrailpass.com/blog/shinkansen-bullet-train-history>



Draw the correct path by the pattern.



## Summer DIY art & craft

### Wind-powered Balloon Car

-Parental help required-

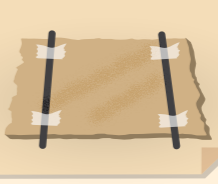
Before starting to build the balloon car, you will need your parent's help to use the scissors and poke a hole in the centre of each bottle cap.

#### Materials:

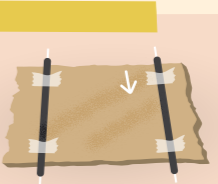
- 1 of 3 x 6-inch cardboard
- Scissors  
(Have an adult supervision for use of the tools)
- 2 of 4-inch wooden skewers
- 2 of 3-inch straws and 1 regular-sized straw
- 1 balloon
- Tape
- 4 plastic bottle caps

#### Steps:

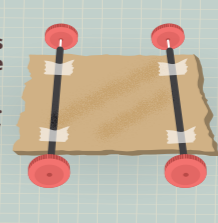
1. Tape the straws to the edge of the cardboard. Make sure that the straws are straight and parallel to the ends of the cardboard



2. Slide the skewers into the straws. You should have about 1/2 inch sticking out of each end.



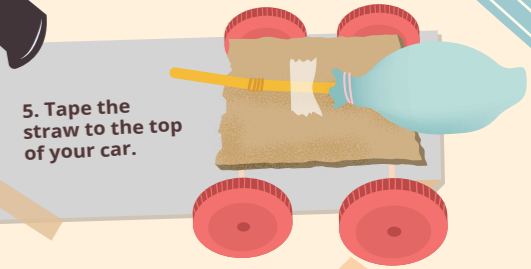
3. Attach the wheels to the skewers. Slide the wheels onto the ends of the skewers. Make sure that they don't touch the cardboard, or they may get stuck.



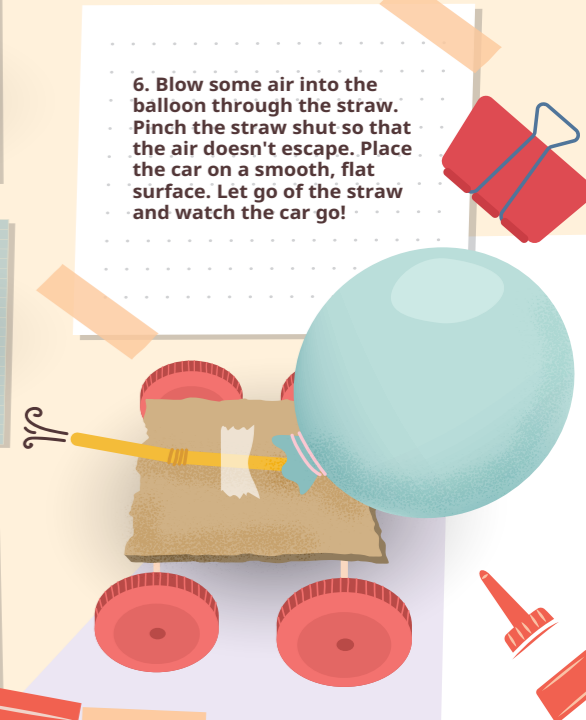
4. Tuck a straw into a balloon and tape it in place. Slide a straw into a balloon by 2 inches (5.08 centimeters). Wrap some tape in a tight spiral around the end of the balloon.



5. Tape the straw to the top of your car.



6. Blow some air into the balloon through the straw. Pinch the straw shut so that the air doesn't escape. Place the car on a smooth, flat surface. Let go of the straw and watch the car go!



# 10 Unique types of transportation around the world

There are lots of unique methods of transportation around the world. We have selected 10 unique types of transportation in the world. Let's see if you have been in any!

## Coco Taxi in Havana, Cuba

These yellow taxis shaped like hollow coconuts can be seen in Havana and Varadero. They are faster and less expensive than regular taxis. Locals use the black taxis, while yellow ones are used by tourists.



## Toboggan in Madeiran, Portugal

The Toboggans first originated in the early 19th century as a fast and fun way of getting down the hill from Monte to Funchal. It is now used as a transportation for tourists.



## Bamboo Train in Battambang, Cambodia

Cambodian bamboo trains (known as nori) are made up of an electric generator and a makeshift bamboo platform as seating. They run along the railway tracks at the speed of up to 40 km/h.



## Maglev in Shanghai, China

The train has actually exceeded 500 km/h in testing. It can travel 19 miles in 7 minutes!



## Tuk-tuk, Thailand

Tuk-tuks or 'sam lor' (three-wheeled) were commonly used as a way of getting around Bangkok before the train and colourful taxis took over.



## Gondola in Venice, Italy

It is a traditional wood-carved gondola boat which considered as a must-do in Venice.



## Reindeer Sled in Lapland, Finland

Reindeer sledding is the oldest form of transport in the north, and an ancient part of Sami culture.



## Suspension Railway in Wuppertal, Germany

Its full name is "Electric Elevated Railway Installation, Eugen Langen System". It is considered the oldest electric elevated railway with hanging cars in the world!



## Felucca on Nile and The Red Sea, Egypt

Feluccas are traditional wooden sailing boats used on the Nile and the Red Sea in Egypt. Their lateen-rigged sails move the boat in a slow pace.



## Cyclo, Vietnam

The cyclo is a three-wheel bicycle taxi that appeared in Vietnam during the French colonial period.



Source: <https://travel.earth/most-unusual-modes-of-transport/>  
<https://livinglocal.triip.me/30-unique-types-of-transport-around-the-world/>



## Spot the difference

Can you spot 20 differences? Circle and number each difference you can find!

Send in your answers with your name, Smālish passport number, age, address and contact details to [sara@smales.com.my](mailto:sara@smales.com.my) or **smales, No.2, Jalan PJU 7/2, Mutiara Damansara, 47800 Petaling Jaya, Selangor** by 30 July 2021. 30 lucky winners will each win a **ISBERGET Tablet stand**.



Where do the old cars go?

### The Problem with Car Trash

Old cars are a huge contributor to overflowing landfills. It could take up to 1,000 years for a car to decompose and the decomposition process itself also pollutes the soil with rot, rust, synthetic liquids, and other toxins.

Source: <https://ecofriend.org/inside-the-car-recycling-process-what-happens-to-old-cars/>

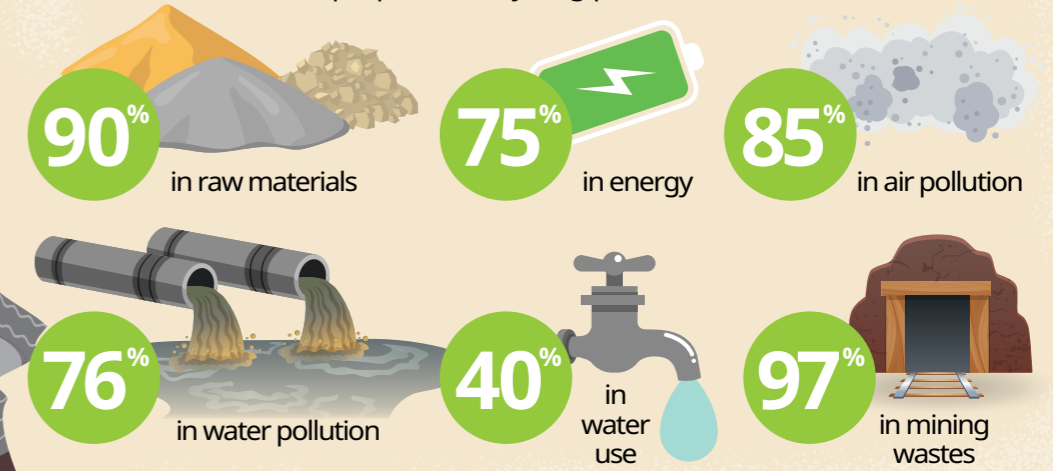
### The Benefits of Recycling



Cars should be recycled since 90 percent of car parts can be recycled.

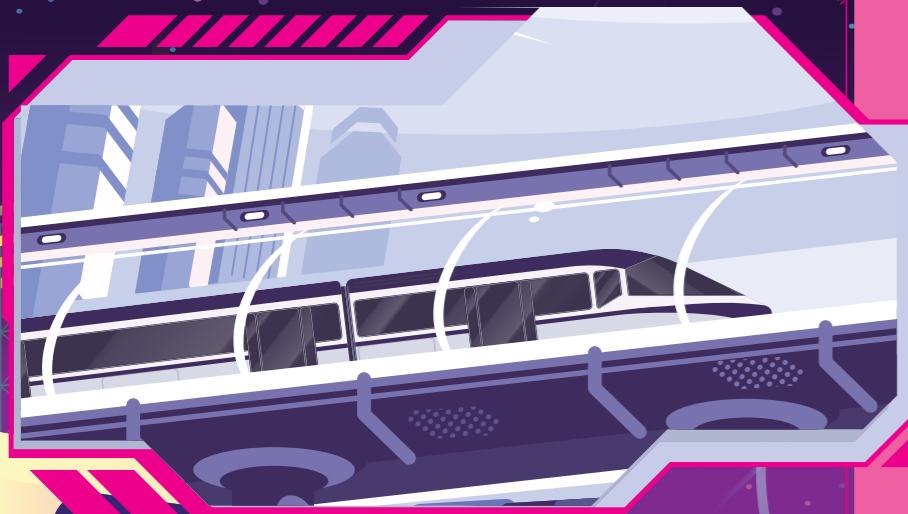
Metals can be purified and reused, rubbers can be recycled, glasses and plastics can be melted down and reformed, and even liquids can be neutralised or reused.

Recycling can save on the world's non-renewable resources. With proper car recycling process, we can save:





## Future of Transportation



### Hyperloop

Have you ever heard of a hyperloop? It is a very new and exciting kind of technology! The idea is that if you have a tube and take all the air out, then anything travelling through the tube could go much faster since there would be no air resistance to slow it down. For example, a hyperloop train could whizz people along at more than 1000 km/h, meaning you could cross all of Europe in just a few hours! The hyperloop will be eco-friendly compared to a lot of current transportation. Most plans for building the hyperloop use solar power to run the system.

Source: <https://yourstory.com/mystory/six-future-transportation-technologies-future>  
<https://kids.kiddle.co/>  
[https://xedknowledge.com/Coverstory\\_Demo.aspx?id=g8gQXxkYQbroVNrDQ2MnGA%3D%3D](https://xedknowledge.com/Coverstory_Demo.aspx?id=g8gQXxkYQbroVNrDQ2MnGA%3D%3D)  
[https://www.esa.int/kids/en/learn/Technology/Useful\\_space/SA\\_helps\\_students\\_to\\_test\\_hyperloop\\_technology](https://www.esa.int/kids/en/learn/Technology/Useful_space/SA_helps_students_to_test_hyperloop_technology)  
<https://www.npr.org/transcripts/536883330>



### Flying Taxi

Could you imagine flying taxis flying around over the place? The dream of flying taxi is about to become a reality! The flying taxis look a little like flying eggs and they don't have pilots. The little flying taxis know where to go by using very sophisticated technology inside. There're computers that are connected to satellites floating up in space. And these satellites can send signals to the flying taxis to tell them exactly where to fly. The flying taxis will probably be able to drop you off high up in the sky such as on the top floor of buildings. An example of such a flying taxi is Volocopter, an autonomous aircraft with electric power in Dubai.

### Self-driving Car

A self-driving car (also called autonomous car or driverless car) is a vehicle that can travel without the need for its driver to always be in control of the car's movement. The car uses sensors to understand what's around it and doesn't need a human's help. You will have time to do almost anything while on the road such as eating, reading, playing games or even sleeping behind the wheel. That's a good idea, isn't it?





# Air Pollution



## What is air pollution?

Air pollution happens when solid and liquid particles called **aerosols** and certain gases end up in our air. These particles and gases can harm the planet and our health.

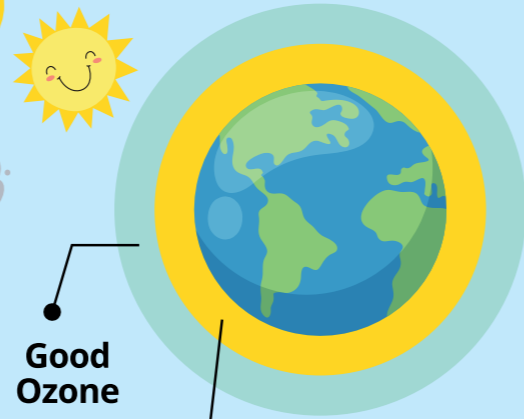
## Where do aerosols come from?

These particles can come from many sources, including car exhaust, factories and even wildfires. Some of the particles and gases come directly from these sources, but others form through chemical reactions in the air.

Aerosols can come from other places, too, such as ash from an erupting volcano. Dust, pollen from plants and mold spores are also examples of aerosols.

## What else causes air pollution?

Certain gases in the atmosphere can cause air pollution. For example, in cities, a gas called **ozone** is a major cause of air pollution.



Good Ozone

Bad Ozone

Ozone is also a greenhouse gas that can be both good and bad for our environment. It all depends where it is in Earth's atmosphere.

Ozone high up in our atmosphere is a good thing because it helps block harmful energy from the sun (radiation).

However, the ozone that is closer to the ground can create negative impact for our health. Ground level ozone is created when sunlight reacts with certain chemicals that come from sources of burning fossil fuels, such as factories or car exhaust.



# Things you can do for the air we breathe

Here are some things you can do every day for the air we breathe:

## Walk or ride your bike to school

Don't ask to be driven to places if it's not really necessary. If you are going somewhere nearby, try to walk or ride your bicycle. Invite your parents along to get a great exercise! The more vehicles we can keep off the roads, the better our air will be.



## Turn off the lights

Generating electricity contributes to smog, so remember to turn off the lights when you leave a room.



## Encourage your family to drive clean

Help to organise a carpool to get to and from sports and other activities and events.

Ask your parents to turn off the engine instead of idling while waiting.



## Avoid chemical sprays and cleaners

Hair and bug spray, air fresheners and even nail polish remover contain chemicals that add to air pollution.

Ask your family member to use more of non-aerosol products like plant-based insect repellent and air fresheners.



# INBOX @ SMALES



## Last issue's theme:

Sara and Bugbug are swimming at the beach while enjoying the beautiful sunset. Draw your most creative and unimaginable sunset view. A sunset that nobody has seen before.



## Best Drawing



Sophia Rose Sharpe, 7 years old

## Best Drawing



Khoo Chong Hong, 7 years old

Sara and Bugbug are going to town for grocery shopping. Draw your most creative vehicle you think they go with.

Include your name, age, Smålish passport number and address, and send your drawing to [sara@smales.com.my](mailto:sara@smales.com.my) or [smales](mailto:smales), No.2, Jalan PJU 7/2, Mutiara Damansara, 47800 Petaling Jaya, Selangor by 30 July 2021. 2 lucky winners will each win a DUKTIG 14-piece vegetables set.



## Best letter

Hi, I'm Roza! I grew up in Kuala Lumpur, the Capital of Malaysia. It is a fascinating city with many restaurants, shopping malls, parks and places of interest. The KL Tower and the KLCC Twin Towers are icons of Malaysia that one must visit.

With the Genting Highlands about an hour's drive from Kuala Lumpur, we can experience a cooler environment and also an exciting theme park for children. The Cameron Highlands is my favourite place for a holiday. I like the strawberries picking part of the trip. I like the Fraser's Hill too. These are places with beautiful mountain scenery and surrounded with lovely nature. You will be amazed with number of butterflies and birds around you.

I don't know much about Malaysian history, but my mom tells me that Melaka and Penang are the historical places to visit. She has taken me there. I love Jonker Street in Melaka, where lots of local products are available for enjoyment, especially the Nyonya food. I like the 'cendol' with 'Gula Melaka'. As for Penang, my favourite place is Penang Hill. I like the tram ride up the hill. Some parts of the ride looked quite scary as it is very steep.

Malaysia is also a country surrounded by sea with beautiful beaches and islands. Langkawi and East Coast Islands are among some attractions that I like. I would like to recommend that you take a trip to my favourite spot, Pulau Langkawi, where you can spend hours on the beautiful beaches. Another thing to do is to experience the ride on cable car up Gunung Mat Cincang and Sky Bridge walk. A special treat of fried ice cream is a must in Pantai Cenang after a swim in the sea! Langkawi here I come!

Roza Chin, 7 years old

## Best letter

Hej Sara and Bugbug,

How are you? Hope you are doing well. My name is Teh Sher Yu and I am six years old. I like the most about Malaysia because Malaysia has a variety food and many interesting places to visit. My favorite foods are "ham chim peng"(Chinese Deep Fried Doughnut) and "claypot rice". My favorite places are Kek Lok Si Temple and Penang Hill in Penang.

I would highly recommend you visit these two places when you are in Malaysia. Kek Lok Si Temple is the famous places to visit in Penang. Both of you can take a stroll up the seven-storey pagoda building and enjoy the beautiful view from the top. Then, both of you can take the funicular train up to Penang Hill. Feel the cool breeze and enjoy the great view of the city, especially in the evening. Both of you can also buy local coffee and treats as souvenir at the Coffee Tree.

It's fun and interesting to visit Kek Lok Si Temple and Penang Hill. Both of you can also take photos there. I hope both of you will be there soon. Have fun! Bye for now!

Teh Sher Yu, 5 years old

## Last issue's theme:

Besides swimming and enjoying the summer holidays. Sara and Bugbug are bored as they would like to read something interesting. Write a letter to Sara and Bugbug on what you like the most about Malaysia and your favourite places to visit.

Sara and Bugbug decided to take an overnight train to other city on their vacation. Along the way they made a new friend! Describe their experience on the train with their new friend.

Include your name, age, Smålish passport number and address, and send your drawing to

[sara@smales.com.my](mailto:sara@smales.com.my) or [smales](mailto:smales),

No.2, Jalan PJU 7/2, Mutiara Damansara,

47800 Petaling Jaya, Selangor

by 30 July 2021. 2 lucky winners will each win a MALA Water colour box.





Which vehicle comes next?

