

# Candles and Cars

## Activity 2 - Compare smoke from candles to smog

### Read the poem below

*Let's say it's your birthday, blow the candles, you star!  
The flames are blown away and the smoke isn't far  
The smoke smells funny and a little bit bizarre*

*Now imagine this - The day is sunny and the candles  
turn into cars*

*The air turns smokey and our lungs are filled a far  
Can our lungs hurt by the smoke from the cars?  
We'll find out with some candles and some smoke  
So when we breathe, we don't have to choke!*



**Can you draw candles on a cake that look like cars? What would the air look like if there were lots of cars?**



**For the better**

# Today's activity is going to need supervision from a teacher or parent!

## Predict

Today we are going to do an investigation with matches and candles. We will explore how smog can make us feel and learn how it impacts the quality of air.

## What is smog? Tick which one you think is correct

A monster that lives under a bin

A mix of smoke and other pollutants in the air

Candles on a cake

## What can be done to reduce the amount of smog in the air?

Stop having birthday cake

Try and walk or ride our bike more and use the car less

Eat a birthday cake

## Collect the information

Now it's time to investigate. With a teacher/parent, light the number of candles in the table below before blowing them out. Record the results of the questions asked in the table. Your teacher/parent may decide to do this task outside for safety reasons.

Number of candles lit and blown out	How much smoke can you see?	How smelly is the smoke?
2		
4		
6		
10		
12		

## Reflect

How many candles being blown out did it take for you to smell the smoke?

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What did it look like when 12 candles were blown out?

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## Imagine you were the size of an ant and you were underneath the 12 candles being blown out

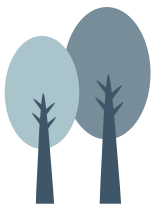
How would that make you feel? Describe in the box below.

## Let's think about it!

Now that you have thought about the smoke you saw and smelt during this activity, imagine what it is like to breathe smokey air or 'smog' every day!

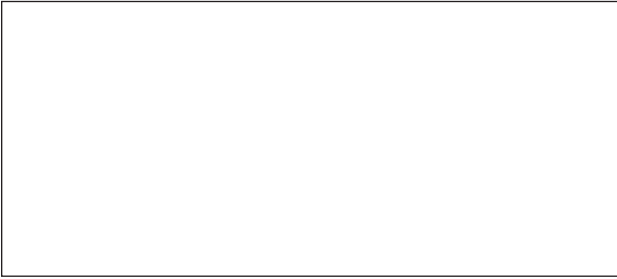
**Smog** - A mix of smoke and other pollutants in the air

## Circle the pictures that could fill the air with smog

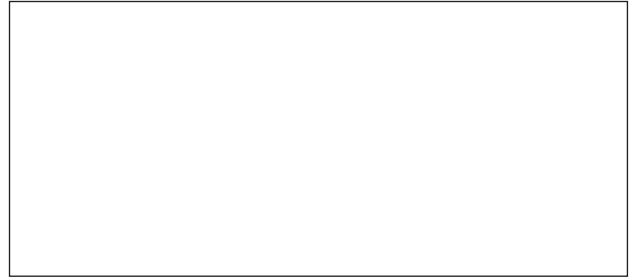


Different places and cities around the world have lots of smog in the air because of high amounts of traffic, power plants and wood burning.

Think about what life would be like if we lived with high amounts of smog everyday. It could be very hard to breathe and the air would not be fresh!  
Draw your pictures below:



Walking to school in smog



Playing sports outside with smog



Traffic on the roads



Power plants and wood fires causing air pollution

### What have we learnt? Fill in the blanks below

Cars, trucks, power plants and fires can fill the air with \_ \_ \_ \_

Smog is a mix of \_ \_ \_ \_ and other pollutants in the \_ \_ \_

We can \_ \_ \_ \_ or ride more and use the car \_ \_ \_ \_ to help keep the air clean.

Answers: smog, smoke, air, walk, less

