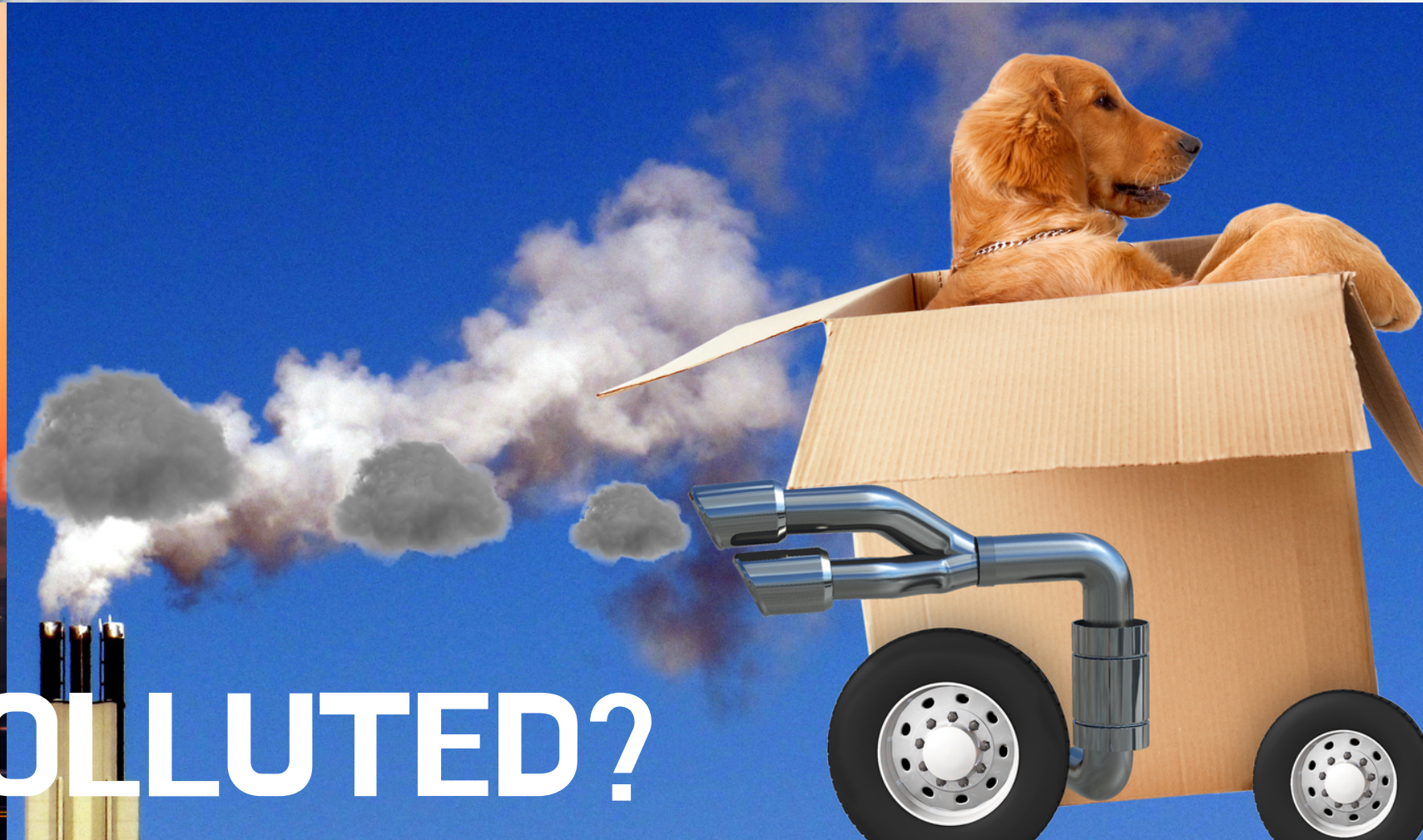


AIR POLLUTION



Birmingham
City Council
Air Monitoring schools project





HOW DOES THE AIR GET POLLUTED?

HOW DOES THE AIR GET POLLUTED?

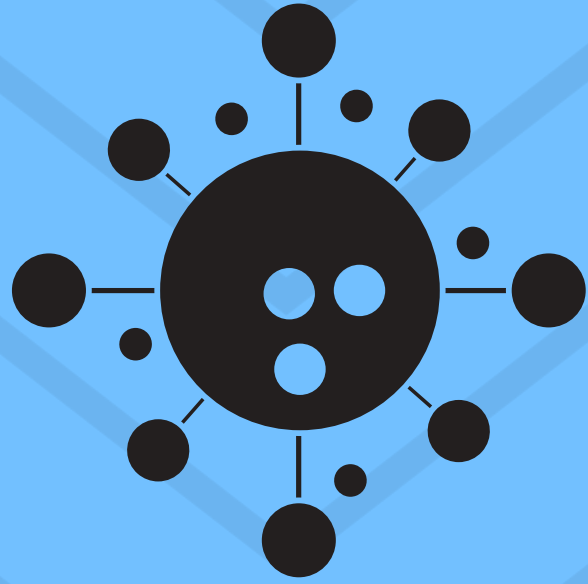
Air Pollution for Kids - VIDEO RECAP:

[https://www.youtube.com/watch?](https://www.youtube.com/watch?v=sAKyhfxr7s)

[v=sAKyhfxr7s](https://www.youtube.com/watch?v=sAKyhfxr7s)

WHAT CAUSES POLLUTION?

**PARTICULATE
MATTER
(SOOT)**



OZONE (O₃)

**NITROGEN
DIOXIDE (NO₂)**



HOW COULD WE MEASURE THE POLLUTION IN THE AIR?



EXPERIMENT - CAPTURING GAS IN A BALLOON WITHOUT USING YOUR OWN BREATH





Grab this stuff:

- A** Small plastic bottle
- B** Vinegar
- C** Water
- D** Baking soda/bicarbonate of soda

- E** Balloon
- F** Teaspoon
- G** Funnel



<https://learning-resources.sciencemuseum.org.uk/wp-content/uploads/2017/09/Kitchen-science.pdf>

Blow-up Balloon



Put a small amount of water in the bottom of the bottle, and then add the same amount of vinegar.



1



2

Using a funnel, half fill the balloon with baking soda (between $\frac{1}{2}$ and 1 teaspoonful should be enough).



Carefully place the balloon over the neck of the bottle and allow it to droop over to the side, making sure none of the baking soda falls into the bottle.

3

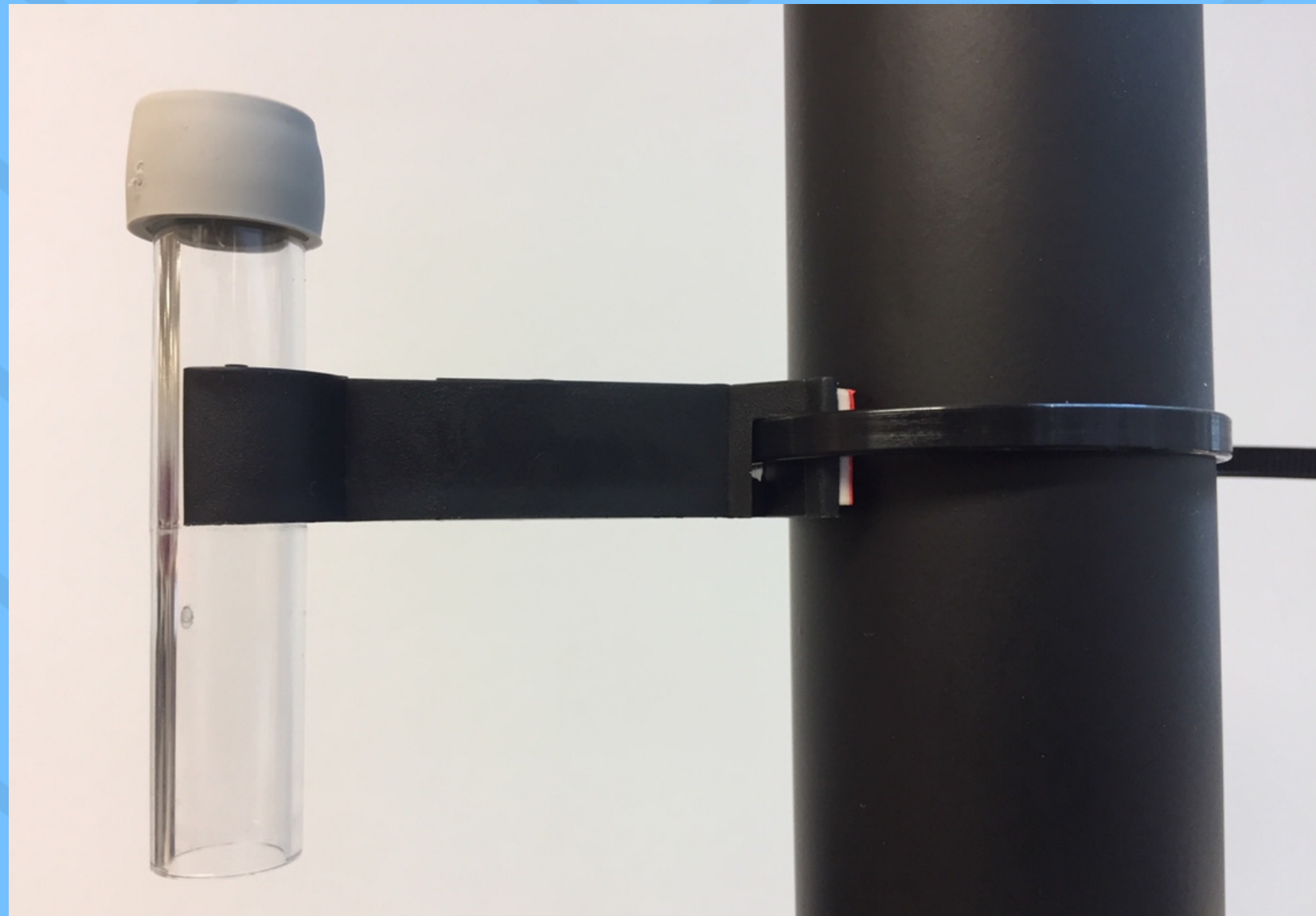


4

Now lift the end of the balloon and pour all the baking soda into the bottle. Shake well and place the bottle on a table. Watch the balloon inflate all by itself.

<https://learning-resources.sciencemuseum.org.uk/wp-content/uploads/2017/09/Kitchen-science.pdf>

MEASURING AIR POLLUTION AT SCHOOL



**Where would be best to
monitor air pollution?
why?**

WHAT IS THE LEVELS OF POLLUTION IN BIRMINGHAM?



BY THE WOODS



BY THE HOUSES



BY THE CITY CENTRE



BY THE ROAD

HOW TO PLAY KEY WORD BINGO

Write 6 words from the given list that are about the topic.

The teacher will read out the words in a random order and if you have them in your list cross them out!

First player to get all their list crossed out wins!

LIST

- Toxic
- Air pollution
- Transport
- Fumes
- Vehicles
- Traffic
- Diesel
- Health
- Asthma
- Pollutants
- Nitrogen dioxide
- Soot