

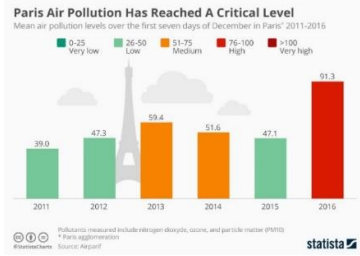
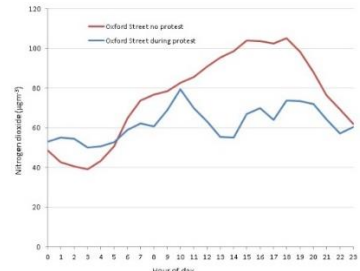
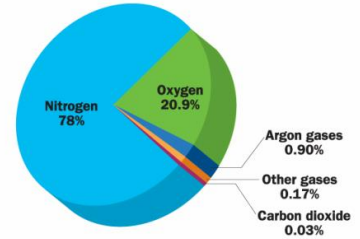


Your Logbook

Name: _____

Class: _____

1. Analyse

Comparing types of graph	What is the graph showing?	What do you think is good about this graph?	What questions would you ask to dig deeper?
<p>Bar graph</p>  <p>Paris Air Pollution Has Reached A Critical Level</p> <p>Mean air pollution levels over the first seven days of December in Paris: 2011-2016</p> <p>Legend: 0-25 Very low, 26-50 Low, 51-75 Medium, 76-100 High, >100 Very high</p> <p>2011: 39.0, 2012: 47.3, 2013: 59.4, 2014: 51.6, 2015: 47.1, 2016: 91.3</p> <p>PM10s measured include nitrogen dioxide, ozone, and particulate matter (PM10). * Paris agglomeration #Photochem Source: Airparif statista</p>			
<p>Line graph</p>  <p>Nitrogen dioxide (µg/m³)</p> <p>Hour of day</p> <p>Legend: Oxford Street no protest, Oxford Street during protest</p>			
<p>Pie chart</p>  <p>Nitrogen 78%</p> <p>Oxygen 20.9%</p> <p>Argon gases 0.90%</p> <p>Other gases 0.17%</p> <p>Carbon dioxide 0.03%</p>			

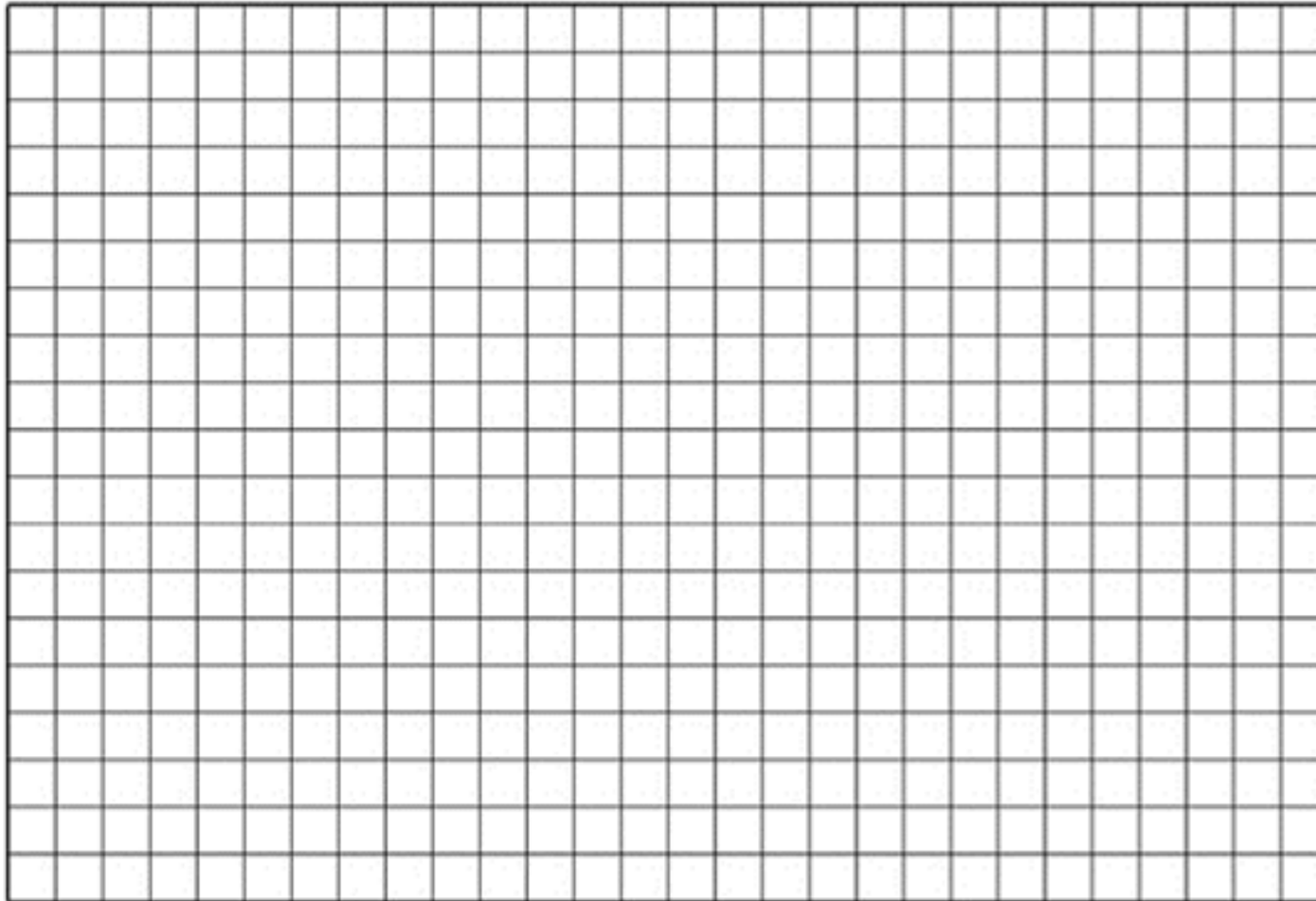
Data from an urban school in March 2020:

	08:00	10:00	12:00	14:00	16:00	18:00
Temperature (°C)						
CO ₂ (ppm)						
Fine Particulate Matter (µg/m ³)						

Data from the same urban school in August 2019:

	08:00	10:00	12:00	14:00	16:00	18:00
Temperature (°C)	21.6	23.2	22.7	22.9	21.8	20.1
CO ₂ (ppm)	543	1391	1369	1962	1442	764
Fine Particulate Matter (µg/m ³)	1	1	2	3	4	6

Title:



Remember to give
your graph a title
and label the axis,
including units.

Analyse your graph:

What was the maximum reading for winter?

What was the maximum reading for summer?

What time of day were these?

Why do you think this was?

Predict

Using your graph, can you predict what the air quality might have been at 8pm in March?

At 8pm in March, I think that.....

.....

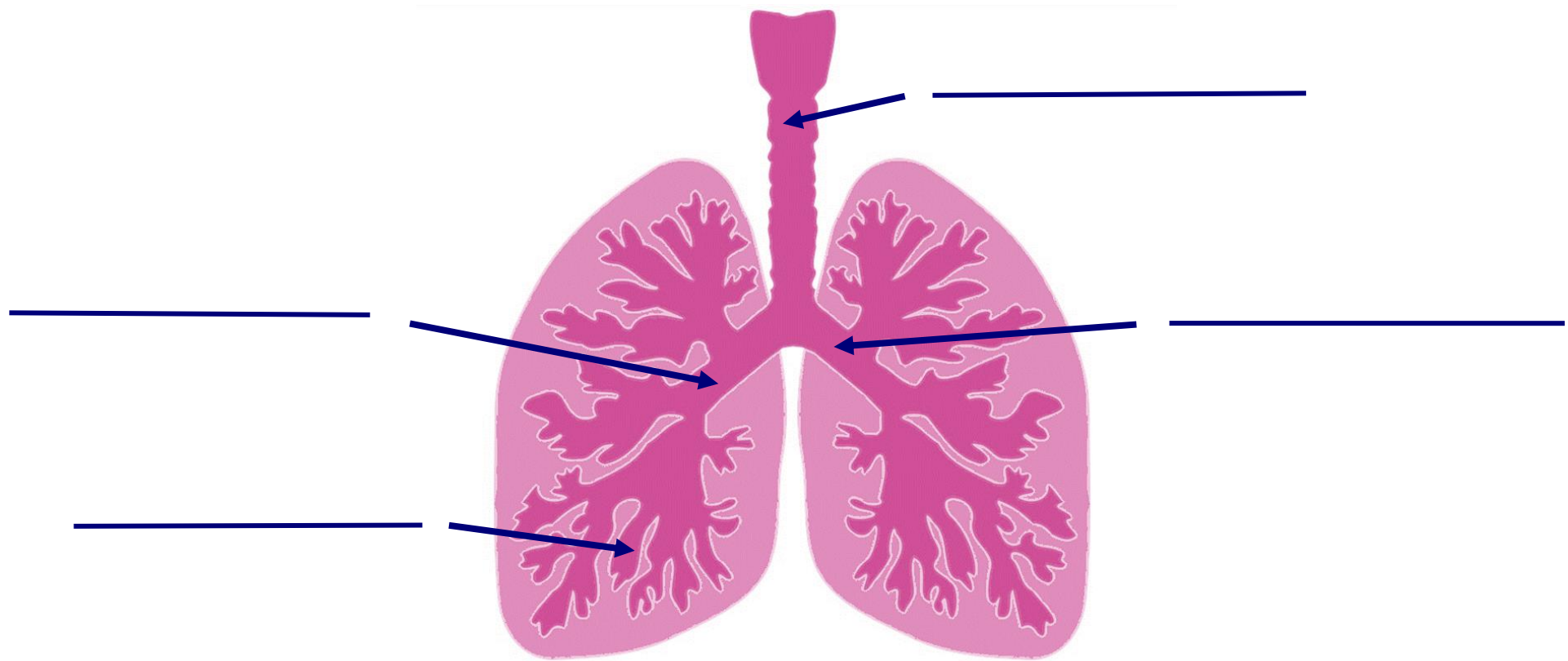
Now choose another time to predict:

.....

.....

2. Identify

Label this diagram:



The victims of air pollution are everywhere, even right here in your classroom. You’re going to hear from Joe, a young boy who suffers from asthma. Whilst listening, make notes under these three questions:

What are the symptoms of asthma?	What are three health conditions associated with air pollution?	What is Greater Manchester doing to reduce air pollution?

Impacts of air pollution:

Air pollution makes people with asthma more sensitive to other triggers, such as dust, pollen or pets.	5.4 million people in the UK suffer from asthma and four people in London are admitted to hospital every day due to air pollution.	Air pollution has an impact on student's concentration in class, which may in turn affect their results.
Air pollution affects the growth of trees and plants, as well as the health of animals.	In some cities around the world, air pollution can be so bad that schools have to close.	Some pollutants are contributing to global warming and our changing climate.
For people with lung cancer or heart disease, air pollution can make their symptoms much worse.	In the UK, air pollution is linked to 36,000 deaths each year.	More than 90% of the world's children breathe toxic, dirty air.

Which of these impacts do you think is the most serious? Why?

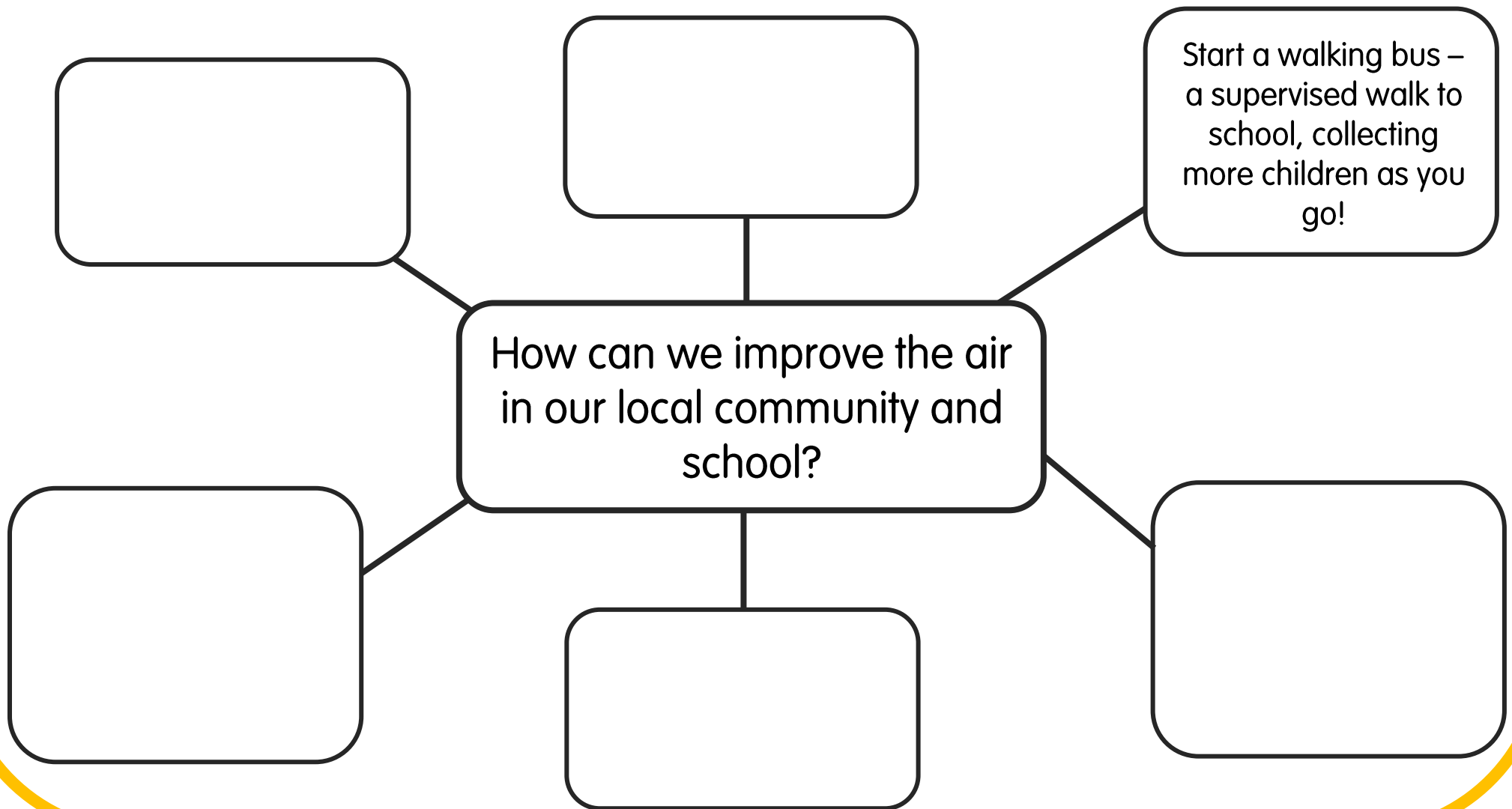
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3. Act

Initial ideas to improve our air:



Clean Air Action Plan:

Team	Location
Changes we want people to make	Messages we want to share
Who do we want to make these changes?	How will we measure our impact?

4. Report

1. Set the scene: What is the problem?	2. Provide evidence: Can you use the data you've collected?
3. What is being done? Give examples from your action plan	4. What more needs to be done? This is your big ask!
5. Who could you interview?	6. Where would you set the broadcast?

[illegible]