

Health impacts of air pollution

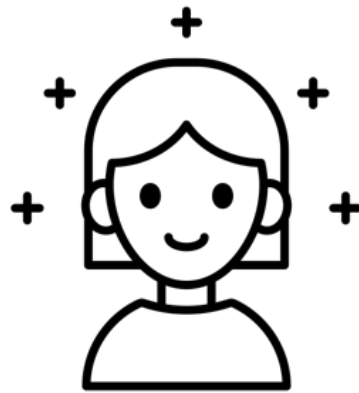
nustem



**Northumbria
University**
NEWCASTLE



How do you keep healthy?



Air pollution IS EVERYWHERE



Urban areas



Rural areas

Even AT HOME

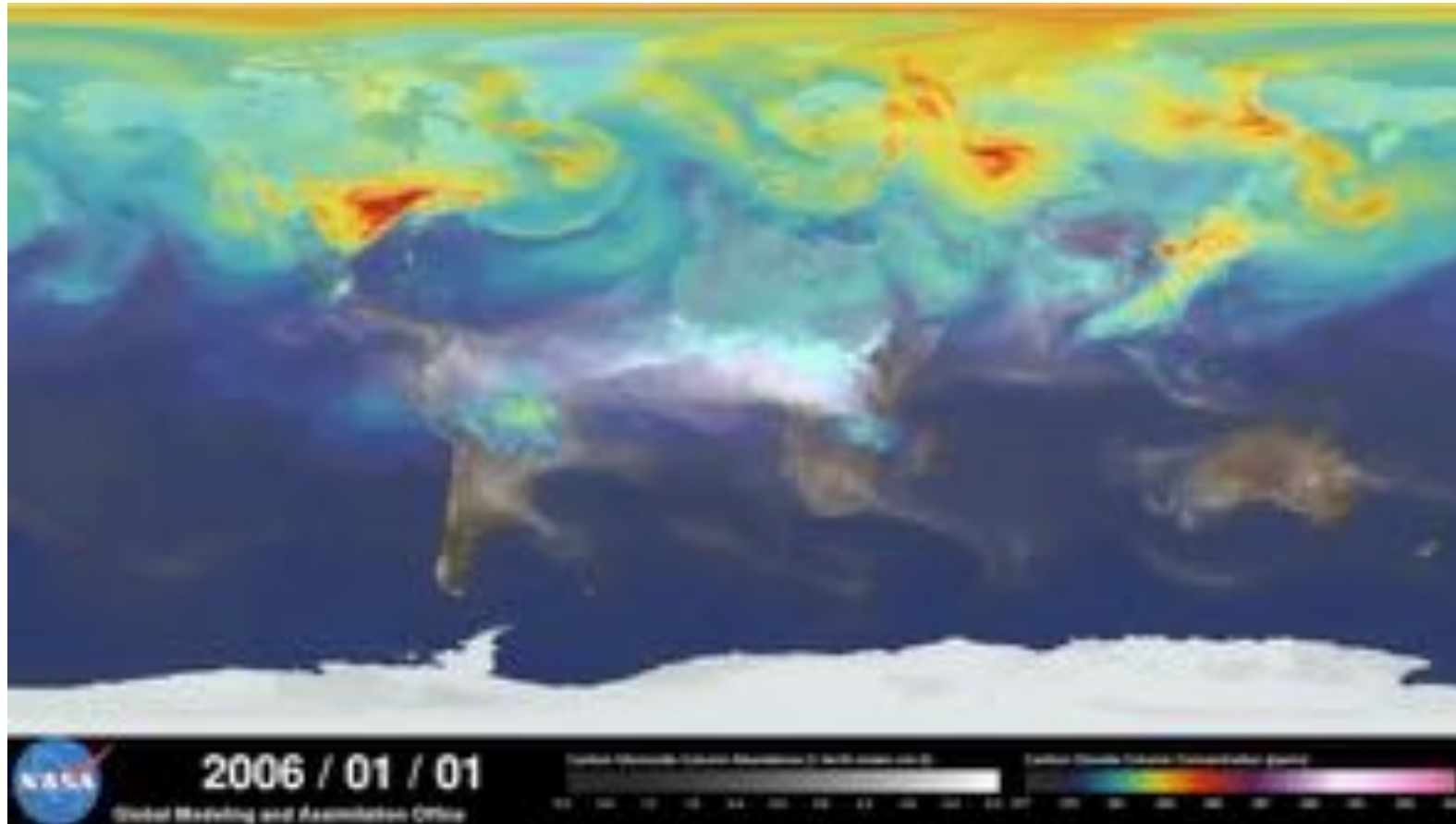


Dust is an example of an indoor air pollutant



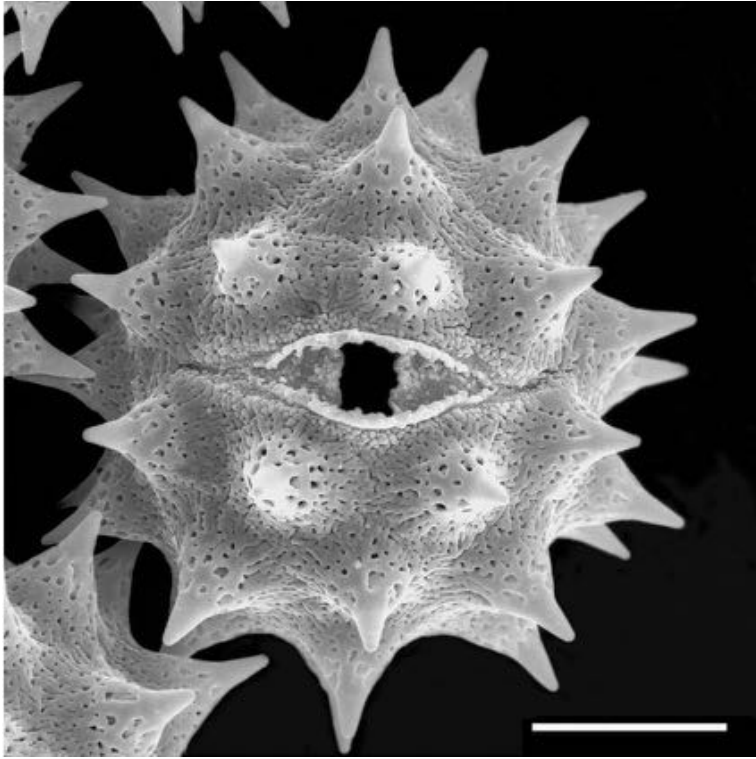
Ways of cooking can raise indoors air pollution

Air pollution **TRAVELS** everywhere



Weather patterns and ocean currents

Click on image or visit <https://youtu.be/x1SgmFa0r04>



Natural origin

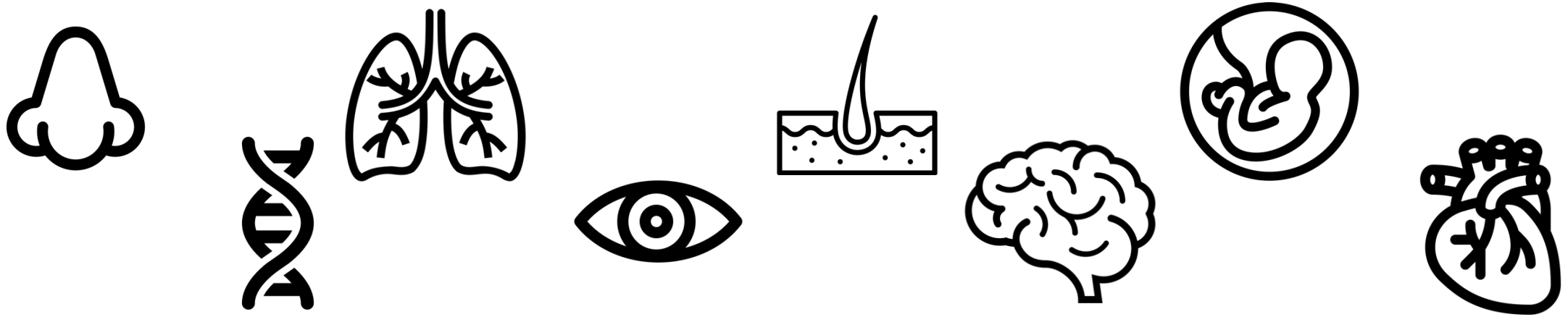
Pollen



Human activity origin

Nitrogen Dioxide (NO₂)

Air pollution **IMPACTS OUR HEALTH**



Being exposed to an excess of air pollutants, even during a short period of time can affect our health.

STEM PERSON
OF THE
WEEK

Juan Carlos Núñez Enriquez
Paediatrician

Juan Carlos is a doctor who treats children and adolescents. He is interested in understanding how air pollution effects diseases like asthma and leukaemia.




Health impacts of air pollution

THE GAME

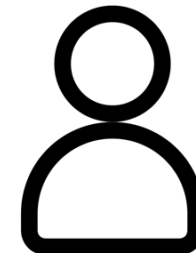


Each player gets their own deck of cards.
Shuffle the chance cards and lay them face down.
The game ends after **three rounds**.
Each round entails:

The game ends after **three rounds**.



THREE yes or no questions
ONE guess at health impact
ONE chance card (optional)



Player 2

Remove the "guessed cards" from play after each round.

What are the **sources** of air pollution?

How does it **affect your** daily **life**?

Who is affected?

Air pollution is a **GLOBAL PROBLEM**



9 out of 10 people

breathe
polluted air

7 000 000

Deaths in 2016

related to
air pollution

In mexico

NACIONAL

México es el tercer país con el aire más contaminado del mundo

Debido a incendios registrados en la capital del país, el nivel de partículas contaminantes subió lo suficiente como para que solo Turquía y China le superen.



Publicado Hasta 5 meses En 14 enero, 2020
Por Edición

Por contingencia ambiental, CdMX tan contaminada como estas ciudades

La contaminación en la Ciudad de México es actualmente comparable a la de otras megalópolis de países como **Japón, Reino Unido, Corea del Sur, India, Estados Unidos y China**. Un [mapa del proyecto World Air Quality Index](#) muestra la calidad del aire en tiempo real en más de 10 mil puntos alrededor del mundo.

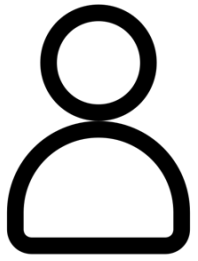
La Ciudad de México atraviesa por una doble contingencia ambiental extraordinaria, lo que ha llevado a la SEP a anunciar la [suspensión de las actividades escolares](#) de mañana, 16 de mayo.

Respirar en la CDMX tiene efectos nocivos para la salud

Se alcanzó el nivel 10, escala máxima del IRPS, que alerta sobre las afectaciones a la salud



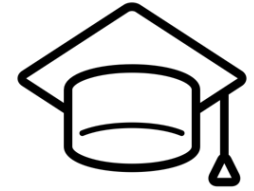
El humo y el olor a quemado perduraron durante el fin de semana / Foto: Laura Lovera



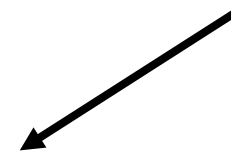
You



Family & friends



School

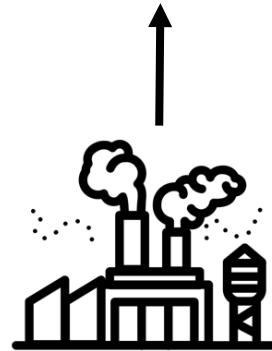
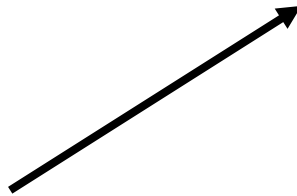


CLEAN AIR FOR ALL

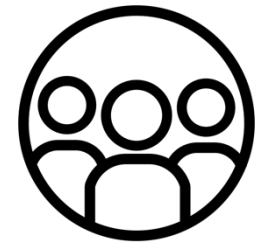
EVERYONE IS RESPONSIBLE



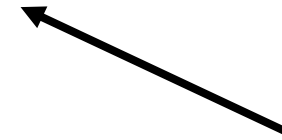
Government

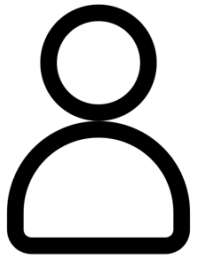


Business
& industry



Local
community

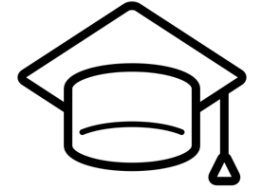




You



Family & friends

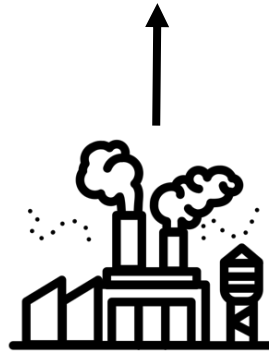


School

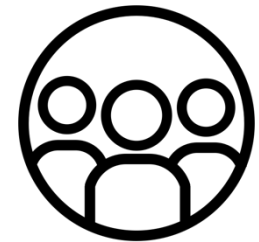
CLEAN AIR FOR ALL
EVERYONE CAN HELP



Government



Business
& industry



Local
community

Monitoring air quality



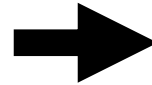
Air quality monitor stations across the world measure levels of pollutants in the air, in real time.

Air quality	Health risk
Good	Low
Acceptable	Moderate
Unhealthy	High
Very unhealthy	Very High
Extremely unhealthy	Extremely high

The outputs are converted into different bands and help inform citizen, just like a weather forecast

Air quality index

Click on the map



Or visit

<https://aqicn.org/map/world/>

To find out where your nearest station and see what the current air quality index is.



AQI	Air Pollution Level	Health effects
0-50	Good	No health risks
51-100	Moderate	Moderate health concern for people who are sensitive to air pollution.
101-150	Unhealthy for Sensitive Groups	Members of sensitive groups may experience health effects.
151-200	Unhealthy	Everyone may begin to experience health effects.
201-300	Very Unhealthy	The entire population is more likely to be affected.
300+	Hazardous	Health alert: everyone may experience more serious health effects.

Air quality index

Compare the air quality index in different places near you.

How are they different?
Residential, industrial,
small villages, by the
water, at higher altitudes?



Air quality index

Can you suggest a place across the world where:

The air is **less polluted**

The air is **more polluted**

