

# PROTECT STUDENTS AND TEACHERS' INDOOR AIR QUALITY

## CARBON DIOXIDE AND COGNITIVE PERFORMANCE

Heightened carbon dioxide levels are known to result in poorer student test performance.



A 400-ppm increase in indoor CO<sub>2</sub> levels has been associated with a

**21%**

**decrease in performance** on a cognitive level



Classroom CO<sub>2</sub> levels of 2500 ppm had **much worse test scores** than at 1000 ppm.

**2,500**  
vs.  
**1,000**

## THE HEALTH EFFECTS OF RADON



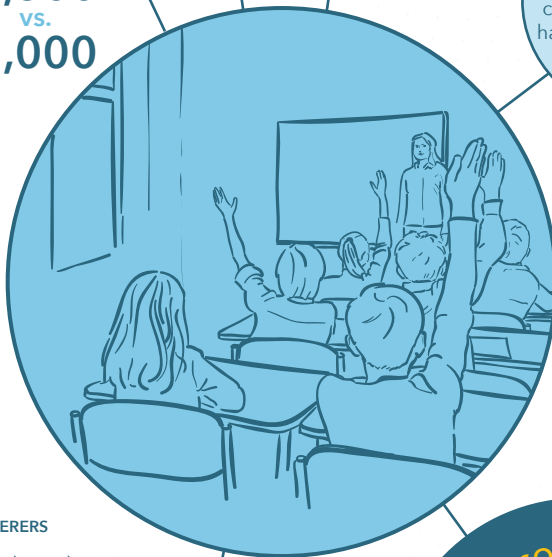
Radon is an odourless, invisible and radioactive gas.



The gas is responsible for about **21,000 lung cancer deaths** in the US every year.

Many countries require schools to test for radon. This is due to its detrimental health effects on both staff and students when in high concentration over a long period of time.

More than **70,000** classrooms in the US have **high short-term radon levels**



## INDOOR AIR QUALITY AFFECTS ASTHMA SUFFERERS

Maintaining the right humidity and temperature levels to prevent mold formation is beneficial for all, especially asthma sufferers.

Toxins and chemicals (TVOCs) come from an array of everyday items including:



Paints and varnishes



Wax and cosmetics



Cleaning and hobby products



Cooking

Total Volatile Organic Compounds (TVOCs) can cause serious health effects in both the short and long term. Health effects vary from minor eye, nose and throat irritations all the way to liver and kidney damage or cancer, depending on the level of exposure.



## SOLUTION?

Continuously monitoring the indoor air quality to ensure that students and teachers alike have the best cognitive performance and healthy air.



## VENTILATION

Ample ventilation in schools and kindergartens can help to reduce the concentration of radon, CO<sub>2</sub>, TVOC's and other asthma triggers.

Maintaining healthy indoor air quality can reduce sick leave costs and increase productivity and test scores.

