

Happy 2023-24 School Year!

Dear Principal and/or Vice-Principal,

I hope you had a restful and happy summer break. I'm sure that you and your staff are happy to be back at school and are looking forward to all the learning that will take place this year. I hope that everyone has a healthy and happy school year—with fewer children and staff at home being sick!

I am writing to you as a resident who lives near your school who is concerned with the way in which poor air quality in schools can impact the health of the school community. Ontario School Safety is working very hard to fight for better Indoor Air Quality (IAQ) in Ontario schools and on school buses to help keep students, staff, and principals like you healthy. A growing body of research is showing that many respiratory viruses and bacteria can hang in the air like smoke for hours and be transmitted from person-to- person. A recent study of over 850,000 US households found that 70% of household spread of COVID-19 started with a child. This means that the measures taken to reduce illnesses at the school-level have a direct impact on the health of the entire school community and surrounding area. And with the recent wildfire smoke events across Ontario in June, it has never been more important to ensure that our schools have good ventilation and filtration—especially since exposure to wildfire smoke can also make both children and adults more vulnerable to respiratory illnesses.

Here are a few simple things school staff can do to help improve IAQ so that everyone can stay healthier this year:

- Open windows as much as possible: Even opening a window a little will make a
 difference by bringing in fresh air and letting out unhealthy air.
- Use HEPA air purifiers properly: Leaving them on at the highest setting possible
 while students are in the classroom and other areas of the school (e.g. gym, library,
 lunch rooms, etc.) and placing them away from walls or corners will help clean the air
 of germs that can make everyone sick. Air purifiers are also essential for protecting
 all of us from harmful wildfire smoke exposure.
- Invest in CO₂ Monitors: Keeping track of the carbon dioxide (CO₂) levels in all enclosed areas of the school will help give you an idea of how much exhaled air is trapped inside a room, which can be a sign that the ventilation may need to be checked, that the HEPA air purifier should be turned on the highest setting, and that a window should be opened to help bring in fresh air if possible.



Attached you will find the helpful infographic *Clean Air in classrooms using W.A.T.C.H.* by Joey Fox, P.Eng. and Chair of the Indoor Air Quality Advisory Group (OSPE). This contains further information on making classroom air healthier for staff and students. Please share it with your school staff so they can learn how to keep their classroom IAQ as healthy as possible.

Wishing you, your colleagues and all of your students a happy and healthy school year. Because healthy schools keep the community healthy too!

Thank you for all your hard work—past, present and future—in helping students learn and grow at school.

Signed,

A Member of the Community & Ontario School Safety

For more information, visit www.ontarioschoolsafety.com.

What is Indoor Air Quality?

Indoor Air Quality (IAQ) refers to the quality of the air inside and around a building. Improving IAQ means ensuring adequate ventilation and filtration, as well as ensuring appropriate temperature and humidity levels within a space. Research also shows that there are other benefits to improving IAQ in schools, such as:

- Improved academic performance
- Better focus and attention
- Reduced drowsiness and fatigue
- Reduced allergy and asthma symptoms
- Fewer student and education worker absences

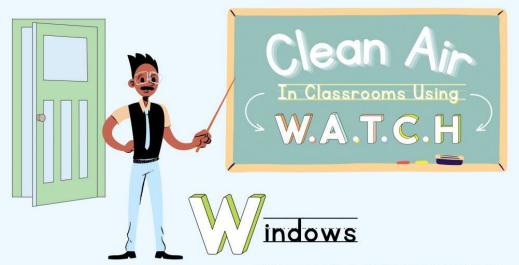
In short, improving indoor air quality in schools means better working and learning conditions for everyone!

References

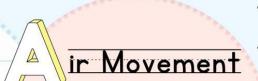
Wang, C. C., Prather, K. A., Sznitman, J., Jimenez, J. L., Lakdawala, S. S., Tufekci, Z., & Marr, L. C. (2021). Airborne transmission of respiratory viruses. *Science*, *373*(6558), eabd9149.

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Check to see if you feel air coming from the diffusers or air vents.







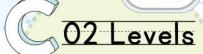
- If it's cold outside, even cracking windows slightly can help.
- Keeping the classroom door open helps circulate the air even more.
- Warm weather? Having 2 windows open while using a fan to blow air out of 1 of the windows is optimal.



Keep the FAN setting ON when the room is being occupied.



AUTO is ok to use when the room is going to be unoccupied.



Use a CO2 monitor with a nondispersive infrared (NDIR) sensor

600

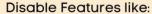
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< 600 ppm	Very Good
600 - 800 ppm	Good
800 - 1000 ppm	Acceptable
1000 - 1500 ppm	Poor
> 1500 PPM	Very Poor

* HEPA filters do not change CO2 levels.

EPA Filter or Corsi-Rosenthal Box

Use the highest setting.

* Noise permitting.



- Ionization
- Plasma
- · UV with Catalyst
- Auto



PLACEMENT IS IMPORTANT

IMPURIANT

- Move away from walls & corners. (0.5 m 1.5 ft)
- Place as close as you can to the centre of the room.
- Avoid blowing directly at anyone.
- Face away from walls & obstructions, e.g. blowing under a table.
- Raised is better than on the floor.
- Keep away from clean air sources: open windows, air vents & other HEPA filters.
- If you have multiple HEPA filters, space them out evenly.

