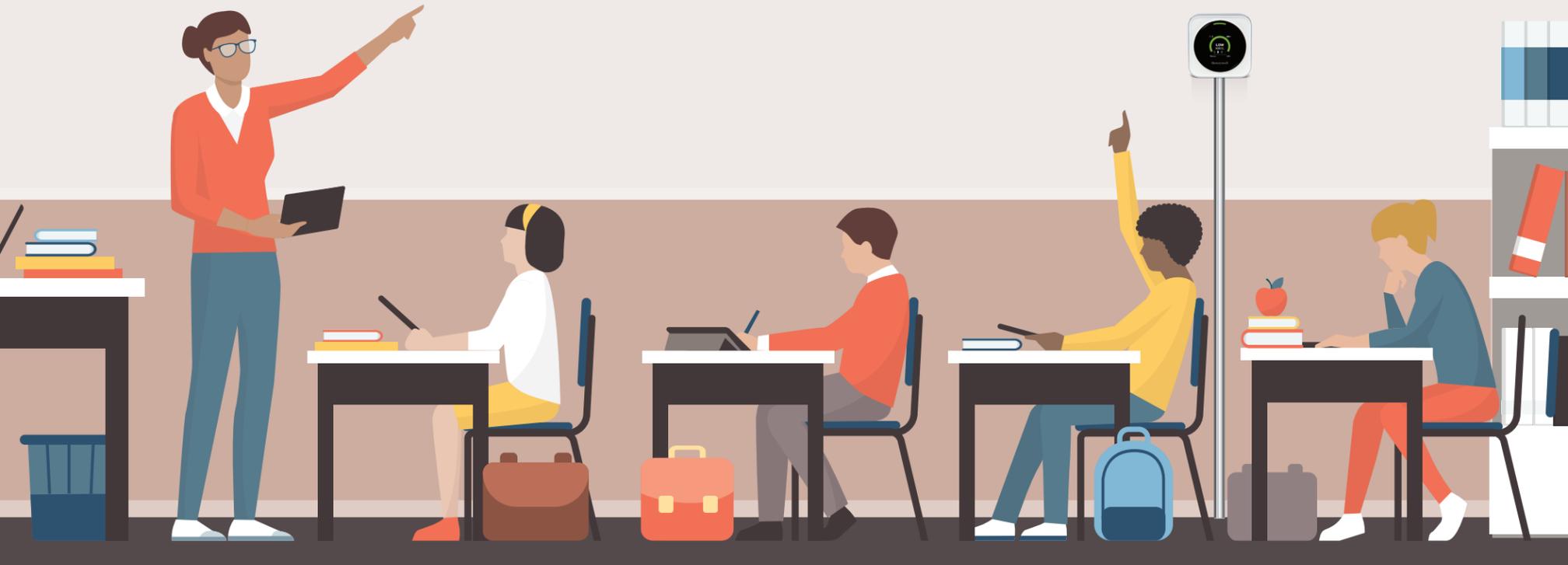


MAKE THE GRADE WITH FIVE EASY STEPS TO HELP MONITOR AND IMPROVE SCHOOL AIR QUALITY



Air monitoring helps create an environment suited for learning. Schools and classrooms can have inadequate ventilation and airflow. The Honeywell Transmission Risk Air Monitor is a cost-effective, user-friendly solution to monitor the indoor CO₂ ppm level. With activity based real time alarm settings, an alert is sent when potentially higher risk conditions exist.



STEPS TO IMPROVE AIR QUALITY



1. PROVIDE ADEQUATE VENTILATION

Properly ventilated classrooms help create healthier learning spaces for students. This step helps address the number of virus particles in the air and helps reduce the concentration of virus particles.¹ According to the CDC, ventilation can be part of a COVID-19 mitigation strategy.



2. MONITOR AIR QUALITY

The CDC recommends using a portable CO₂ monitor in the breathing zones of occupied rooms to collect data. Based on these measurements and the occupancy of the room, outdoor air can be adjusted to increase air flow if necessary.



3. CHECK FOR EXCESS MOISTURE

Strategies should include steps to prevent and mitigate excess moisture and dampness. If left unattended, moisture can lead to mold growth which can, in turn, lead to allergic reactions and illness.



4. ENSURE THERMAL COMFORT

An EPA study shows the connection between classroom temperature, air flow and student tests. When temperature was reduced from 25°C to 20°C (77°F to 68°F) and the air supply rate went from 5.2 to 9.6 L/s (11.0 to 20.3 cfm) students performed better on tests.



5. CHECK OFFICE EQUIPMENT

The EPA's Administration Staff Checklist and Backgrounder recommends routinely checking and maintaining the school's office equipment and keeping it in a well-ventilated area. Other areas to check are restrooms, kitchens, and labs which may be sources of contaminants and odors.



As CO₂ goes up, ventilation and airflow go down. Cognitive performance goes down and a higher risk of disease transmission rises.



A target for good ventilation CO₂ readings should be set below the Honeywell recommended 800 parts per million (ppm) for low activity.



Indoor humidity should be kept low, ideally below 60% relative humidity to help prevent excess moisture and dampness.



Students perform better on tests when the temperature is reduced and the outdoor air supply rate per person is increased.



Exhaust fans should be on and fully operating during school hours. Air should flow toward the exhaust intake.

¹ CDC