



# HOW YOUR SCHOOL BUILDING IMPACTS STUDENT HEALTH, ATTENDANCE, AND PERFORMANCE

## VENTILATION

Common indoor air pollutants in schools have been associated with acute chronic health effects. Elevated CO<sub>2</sub> levels in classrooms has been linked to increased student absence.

## THERMAL HEALTH

Thermal conditions can impact focus, and performance. Low absolute humidity has been associated with increased transmission of seasonal influenza outbreaks leading to absenteeism.

## LIGHTING AND VIEWS

Students exposed to blue-enriched white light in the morning have shown faster cognitive processing speed and better concentration performance.

## NOISE

Students in schools with the noisiest types of HVAC systems were found to underperform on student achievement tests

## 9 FOUNDATIONS OF A HEALTHY SCHOOL



## AIR QUALITY

Allergens common in schools can affect student attendance, comfort, and performance.

## MOISTURE

Many studies link molds and moisture to effects on asthma and respiratory infections associated with absenteeism and lower performance in school.

## DUST AND PESTS

Mold and pests respond to increased indoor humidity and moisture. Exposure to these allergens can trigger asthma symptoms, affecting student attendance, comfort, and performance.

## WATER QUALITY

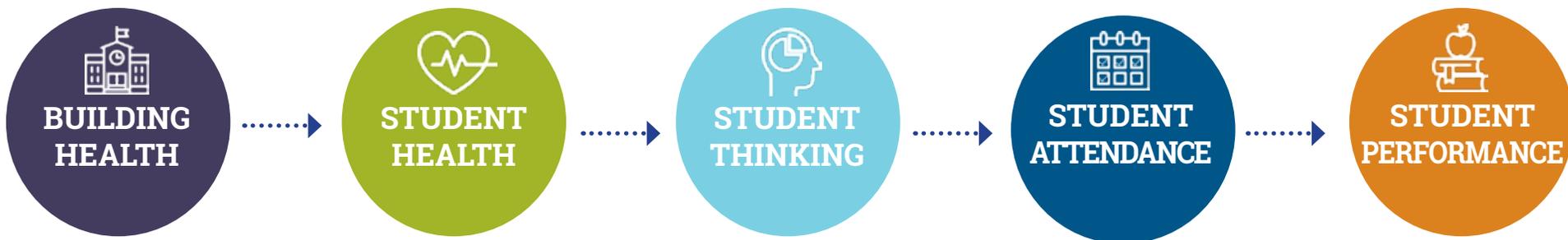
Lead exposure can affect children's cognitive health and attention span. For schools impacted by lead in water, strategies that fix tap water are more economical in the long-run compared to providing bottled water.

## SAFETY AND SECURITY

Students' perceived sense of security can impact their mental health, engagement in school activities, and academic achievement.

\*SOURCE: Harvard School of Public Health, [Schools for Health, Foundations for Student Success: How school buildings influence student health, thinking, and performance](#)

At Charter School Capital, we believe school buildings are environments that - when designed properly - can help students thrive. We offer a broad suite of services to help you optimize your school's learning environment. Our facilities, construction, renovation, and energy financing solutions can help transform your school building into an ideal space that supports student health, thinking, attendance, and performance.



SOLUTIONS	VENTILATION	AIR QUALITY	THERMAL HEALTH	MOISTURE	DUST & PESTS	WATER QUALITY	SAFETY & SECURITY	LIGHTING & VIEWS	NOISE
Upgrading plumbing, HVAC systems or controls	✓	✓	✓	✓	✓	✓			✓
Installing LED lighting and/or smart lighting			✓				✓	✓	
Adding solar or security window film			✓				✓	✓	
Structural enhancements; roof, windows, foundations, etc.			✓	✓			✓	✓	✓

**Schedule some time with us to learn how we can help upgrade the health of your school!**

**<https://charterschoolcapital.org/learnmore>**