



[Image Source: www.welcometousa.gov](http://www.welcometousa.gov)

HEALTHY SCHOOLS FOR HEALTHY KIDS

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Healthy Schools for Healthy kids

Healthier school buildings and environment contribute to enhanced student learning, better overall quality and reduced health and operating costs.

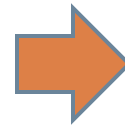


[Image source: www.karynpyle.com](http://www.karynpyle.com)

Hazardous Environment: Is it a Real Threat?

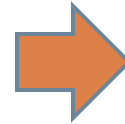


- High concentration of Manganese



Learning Disabilities

- High concentration of mercury, cadmium, nickel, trichloroethylene, vinyl chloride



Increased risk of Autism

- Benzene

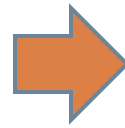


Bronchitis, Asthma, wheezing, leukemia, blood disorders, certain cancers

Hazardous Environment: Is it a Real Threat?

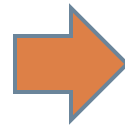


- High traffic pollution (bus idling)



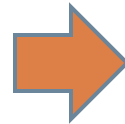
Recurrent bronchitis,
bronchiolitis,
pneumonia

Exposure to
particulate matter



Increased
absenteeism

- Exposure to formaldehyde



Asthma



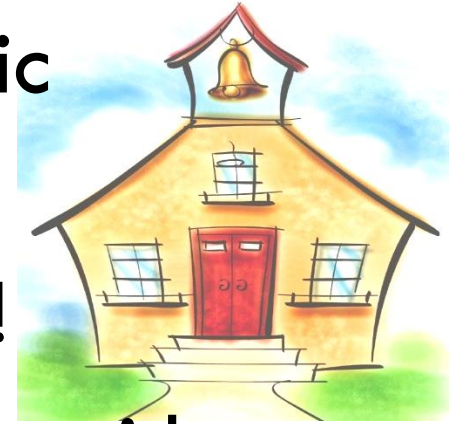
Yes, it is a Real Threat?

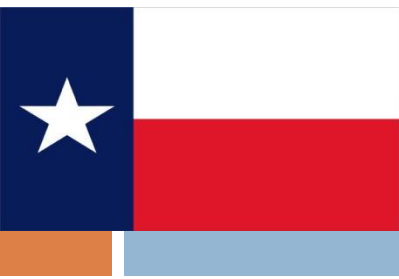


- “ Building made me very sick.....Lead, arsenic , cadmium and chromium were found in the dust throughout the building.”(Arizona Teacher)
- “ My daughter is having headaches and blurry vision due to hand sanitizer, cleaning products and Expo markers.”(Illinois Parent)
- “My fatigue and other symptoms are related to exposure to mold in my former classroom.”(South Carolina Teacher)

School Buildings are Just Like Human Body

- Elevated relative humidity correlated with VOCs (Volatile organic compounds)
- Humans are pollutants too!
- Oxidized compounds react with anything that smells good when introduced indoors.





Schools in Texas; Some Facts

School buildings	8,856
Students	4,599,509
Employees in school system	616,155
Youth 4-17 (years) diagnosed with ADHD	7.69%
Schools with at least one inadequate building feature	46%
Schools with at lease one unsatisfactory environmental factor	60%
Students at high risk daily	2,437,740
Children under 18 with Asthma	7.9%

How can we Make our Schools Safe and Healthy

- ❑ Good Indoor Air Quality and Thermal Comfort
- ❑ Well maintained Systems
- ❑ Good outdoor air quality
- ❑ Cleanliness
- ❑ Use and storage of toxic chemicals and pesticides
- ❑ Remediate hazards

How can we Make our Schools Healthy

- Salad Bars to Schools
 - Rainbow Days
- Farm to School
- Garden Clubs
- Reduce, Reuse and then Recycle



Healthy Schools are.....

- Safer
- Cost Effective
- Smarter



[Image source: www.michigan.gov](http://www.michigan.gov)

Sources:

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- Gerald McGwin Jr.I; Jeffrey Lienert II; John I. Kennedy Jr.III. Formaldehyde exposure and asthma in children: a systematic review