

## Indoor Air Quality

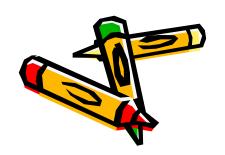
- We spend 90% of our time indoors
- Indoor air quality is worse than ambient air quality
- EPA ranks indoor air pollution as one of the top five environmental health risks to the public
- Children are especially vulnerable





# Consequences of Poor Indoor Air Quality in Schools

- Health problems
- Student and teacher performance
- Loss of public trust
- Liability issues
- Negative media coverage
- Accountability to school board and other officials





### Indoor Air Hazards

**Building Materials** 

Cleaning Agents

Pesticides

Copiers

Allergens

**Dust Mites** 

Molds

Bacteria/Viruses

Radon

Printers

Lead

Asbestos



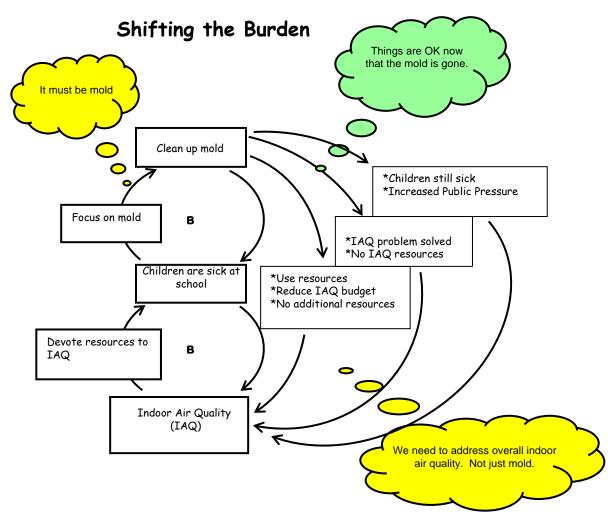


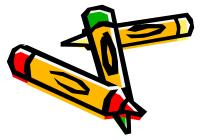
## Background

- East Tennessee Health Region receives complaints that children are sick at school
- Parents believe that mold is the problem
- Other indoor air quality hazards are not considered
- EPA recommends Indoor Air Quality Maintenance Programs











Toni Herring Bounds, PhD, MPH TN Department of Health

## Background

East Tennessee Health Region consists of:

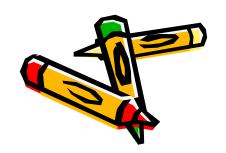
- 15 counties
- 21 school systems
- 230 public schools
- 1600 school children





#### Problem Statement:

East Tennessee Health Region school systems need Indoor Air Quality Management Systems to insure that schools have good indoor air quality providing a healthy environment for East Tennessee school children.





#### Goal:

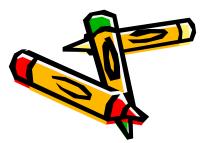
Increase the number of Indoor Air Quality
Management Programs in the East Tennessee
Health Region school systems





#### Planned Events:

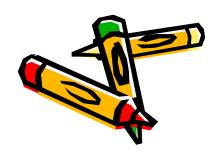
- Implement an indoor air hazards health educational program
- Establish associations of local organizations that will enable school systems to develop Indoor Air Quality Management Programs
- Implement Indoor Air Quality Management Programs in at least two East Tennessee Health Region school systems identified by the Indoor Air Quality Needs Assessment Survey





#### Next Steps:

- Expand partnerships
- Develop resources (EPA Tools for Schools)
- Increase indoor air quality awareness
- Implement Indoor Air Quality Maintenance Programs in ETHR schools





#### References:

- U.S. Environmental Protection Agency. *Indoor Air Quality Tools For Schools Action Kit*, 402-K-95-001, 2nd ed. Washington, DC. August 2000.
- The Tennessee Department of Education. *The Tennessee School Report Card 2004*, Nashville, TN, May 2005.
- National Association of Counties. The County Official's Indoor Air Quality Handbook, The Indoor air Quality Program, Washington, DC. January 2005.

#### Acknowledgements:

- Paul C. Erwin, MD, MPH (ET Health Region)
- Sericea S. Smith, MPH (UT Graduate School)
- East Tennessee Health Region School Maintenance Directors
- Lashon Blakely (EPA District IV Tools for Schools)

