

# TEST SCHOOLS ARE FAILING



Never heard of radon? It's the second leading cause of lung cancer, responsible for more deaths than drunk driving and it is in our schools.



"Picocuries Per Liter (pCi/L) - The unit of measurement that specifies the decay in seconds within a volume of one liter of air."

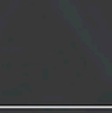
Radon is a radioactive gas released from the normal decay of the elements uranium, thorium, and radium in rocks and soil.



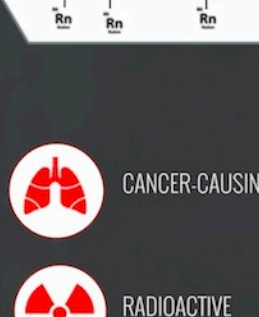
Uranium



Thorium



Radium



## RADON GAS



CANCER-CAUSING



RADIOACTIVE



INVISIBLE



ODORLESS

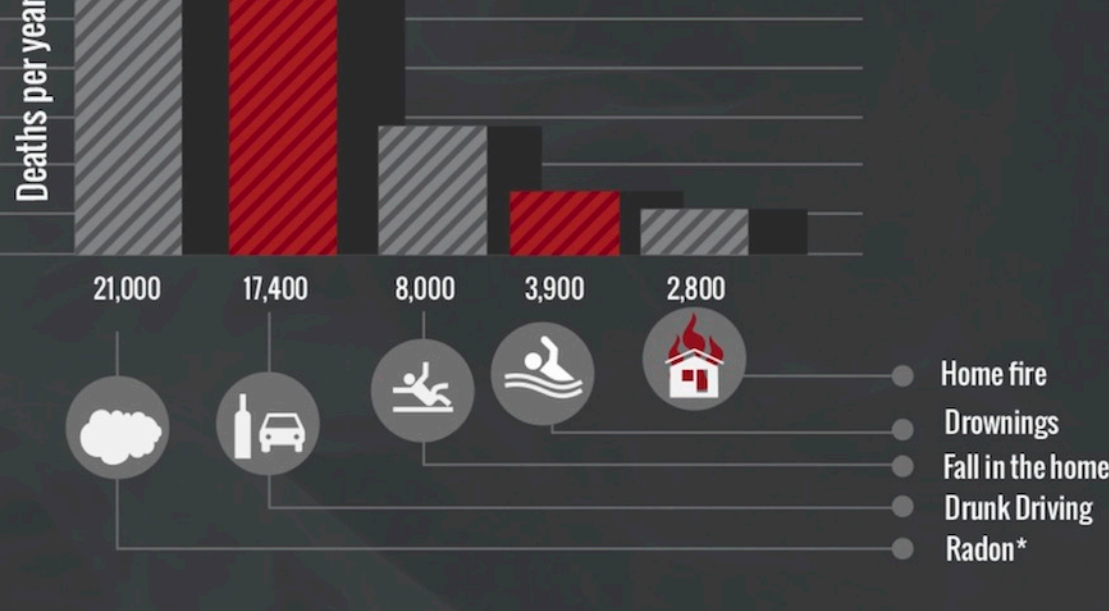


TASTELESS

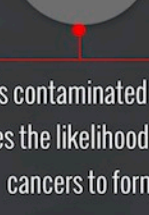
Radioactive particles from radon can damage cells that line the lungs and lead to lung cancer.



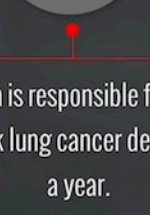
Radon is the second leading cause of lung cancer in the United States and is linked to more deaths than the following, annual fatalities



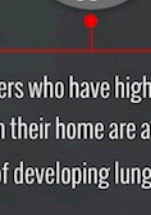
It is estimated that more than 70,000 U.S. classrooms demonstrate high, short-term radon levels.



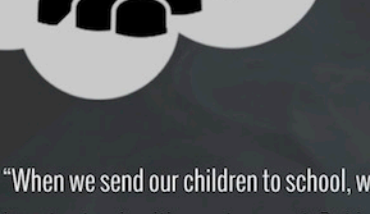
Air that is contaminated with radon increases the likelihood of various cancers to form.



Radon is responsible for over 20k lung cancer deaths a year.



Smokers who have high levels of radon in their home are at a greater risk of developing lung cancer.



Not only does radon present innumerable health hazards to both home and work environments, but it also presents a silent danger to the detriment of children within various school systems across the country.

"When we send our children to school, we assume that they're safe; that they're learning in a healthy environment. But health officials say there's a danger in the air: radon a toxic cancer causing gas in thousands of classrooms nationwide. And, we found, many districts are doing nothing about it."

-Today.com



Therefore, it is essential that students, teachers, and parents are aware of the threat that this deadly health hazard poses within classrooms across the nation.



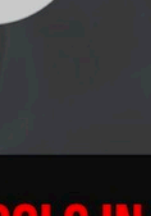
The EPA ranks indoor radon among the most serious environmental health problems facing us today.

19.3% = 1 in 5 schools have at least ONE CLASSROOM with a short-term radon level above 4 pCi/L; the level at which EPA recommends a course of action to reduce such levels.

Although most elevated measurements in this study were slightly greater than 4 pCi/L, several schools were found with levels well over 20 pCi/L while some have been found with concentrations over 100 pCi/L.

EPA via epa.gov

## AND THE SCARIEST PART?



"Radon is threatening the health of students in thousands of classrooms across the country, but many districts aren't doing anything about it."

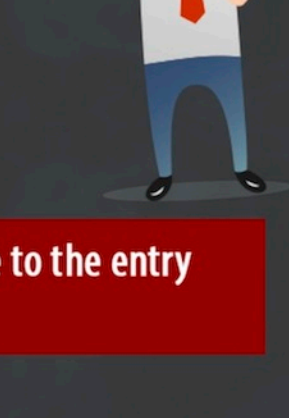
-Huffingtonpost.com

## MOST SCHOOLS IN THE U.S. DON'T TEST FOR RADON.

As a matter of fact, the following 8 states are the only states to regulate routine radon screening:

- Connecticut | Colorado | Florida | New Jersey | Rhode Island | Virginia | West Virginia | Oregon

Why are some states seeing higher levels of Radon than others?



There are many factors that contribute to the entry of Radon gas



The concentration of radon in the soil gas (source strength) and permeability of the soil (gas mobility) under the school.



The structure/construction of individual school buildings.



The operation & maintenance of HVAC systems.

The only true way to determine if a Radon problem exists is to test for it.

Testing is the only way to know if your home or school system has elevated radon levels. Health authorities recommend radon testing and encourage corrective action when necessary.

## Elements of testing for Radon in Schools

## How To Test For Radon In Classrooms

TEST ALL FREQUENTLY USED ROOMS ON AND BELOW THE GROUND LEVEL.

CONDUCT TESTS IN THE COOLER MONTHS OF THE YEAR.

FOLLOW THE APPROPRIATE TESTING STRATEGIES, NOTED BELOW.

## School Testing Strategy

### Step 1

**Initial Testing Phase**  
Administer short-term tests.

### Step 2

**Follow-Up Testing**  
Take a second short-term test in rooms where the initial level is 4 pCi/L or higher.

### Step 3

**Long-Term Test**  
Take a long-term test in these rooms to determine the school-year average Radon level.

### Step 4

**Take Action to Reduce Levels**  
If average test result levels are 4 pCi/L or greater, take action to reduce Radon levels.