

Grades 9-12: Radon Activity Badge Quiz
Results and answers will be emailed to contact information provided.

Name/Troop Number: _____
Contact Name: _____
Email Address: _____
Phone Number: _____

- 1) _____ **Radon gas is _____.**
 - a. Colorless
 - b. Odorless
 - c. Tasteless
 - d. All of the above

- 2) _____ **Radon gas decays into harmful radioactive particles that release bursts of _____.**
 - a. Water
 - b. Energy
 - c. Oxygen
 - d. Hydrogen

- 3) _____ **Radon health risks are based on research studies of _____.**
 - a. Construction workers
 - b. Homeowners
 - c. School teachers
 - d. Underground miners

- 4) _____ **Radon is the second leading cause of _____ cancer.**
 - a. Stomach
 - b. Skin
 - c. Lung
 - d. Bone

- 5) _____ **Smoking _____ your risk of lung cancer from radon gas.**
 - a. Increases
 - b. Decreases
 - c. Does not effect

- 6) _____ **Radon gas comes from the natural decay of _____.**
- a. Mercury
 - b. Lead
 - c. Helium
 - d. Uranium
- 7) _____ **The main cause of elevated radon levels are due to _____.**
- a. Radon in water
 - b. Radon in outdoor air
 - c. Radon in soils
 - d. Radon in construction materials
- 8) _____ **Radon gas enters a building through _____.**
- a. Cracks in solid floors
 - b. Cracks in walls
 - c. The water supply
 - d. All of the above
- 9) _____ **Nearly _____ out of every 15 U.S. homes are estimated to have elevated radon levels.**
- a. One
 - b. Two
 - c. Three
 - d. Four
- 10) _____ **The amount of radon in the air is measured in _____.**
- a. Picocuries per gallon
 - b. Picocuries per pint
 - c. Picocuries per milliliter
 - d. Picocuries per liter
- 11) _____ **A short-term test kit will remain in your home for _____.**
- a. 1 to 3 hours
 - b. 2 to 90 days
 - c. 4 to 6 months
 - d. 1 year

- 12) _____ **A type of short-term test kit is a _____.**
- a. Charcoal canister
 - b. Electret ion chamber
 - c. Continuous monitor
 - d. All of the above
- 13) _____ **Long-Term test kits will give you the _____ of your home's radon levels.**
- a. Yearly average
 - b. Monthly average
 - c. Weekly average
 - d. Daily average
- 14) _____ **With a short-term test, windows and doors should be close _____ hours before the test.**
- a. 2
 - b. 8
 - c. 12
 - d. 24
- 15) _____ **A test kit should be placed in _____.**
- a. The kitchen
 - b. The bathtub
 - c. A third floor bedroom
 - d. The lowest lived-in room
- 16) _____ **The U.S. Environmental Protection Agency action level for radon gas is _____.**
- a. 0.0 pCi/L
 - b. 4.0 pCi/L
 - c. 20.0 pCi/L
 - d. 100.0 pCi/L
- 17) _____ **Test kits may be available for purchase at _____.**
- a. The American Lung Association in Illinois
 - b. Local county health departments
 - c. Hardware stores
 - d. All of the above

- 18) _____ **Performing work to reduce radon levels in your home is called _____.**
- a. Measurement
 - b. Construction
 - c. Mitigation
 - d. Remodeling
- 19) _____ **The State of Illinois radon program is run by the _____.**
- a. U.S. Environmental Protection Agency
 - b. Illinois Emergency Management Agency
 - c. City of Springfield
 - d. County health departments
- 20) _____ **To install a mitigation system in your home, a contractor must have a _____.**
- a. High School Diploma
 - b. State of Illinois License
 - c. College Degree
 - d. Private Company