

JUNIOR HIGH SCIENCE
INVESTIGATION 5
HOW DOES HUMAN RESPIRATION RELATE TO RADON?

- CCS 5.1** (Scientific Processes) All students will develop problem-solving, decision-making and inquiry skills, reflected by formulating usable questions and hypotheses, planning experiments, conducting systematic observations, interpreting and analyzing data, drawing conclusions, and communicating results.
- B.1 Grade 4 Develop strategies and skills for information-gathering and problem-solving, using appropriate tools and technologies.
- A.1 Grade 8 Evaluate the strengths and weaknesses of data, claims, and arguments.
- A.2 Grade 8 Communicate experimental findings to others.
- B.3 Grade 8 Collect, organize, and interpret the data that result from experiments.
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- CCS 5.3** (Mathematical applications) All students will integrate mathematics as a tool for problem-solving in science, and as a means of expressing and/or modeling scientific theories.
- D.1 Grade 8 Represent and describe mathematical relationships among variables using:
- graphs
 - tables
 - charts
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- CCS 5.4** (Nature and process of technology) All students will understand the interrelationships between science and technology and develop a conceptual understanding of the nature and process of technology.
- C.1 Grade 4 Describe a product or device in terms of the problem it solves or the need it meets.
- B.1 Grade 8 Analyze a product or system to determine the problem it was designed to solve, the design constraints, trade-offs and risks involved in using the product or system, how the product or system might fail, and how the product or system might be improved.

CCS 5.5 (Characteristics of life) All students will gain an understanding of the structure, characteristics, and basic needs of organisms and will investigate the diversity of life.

A.2 Grade 8 Recognize that complex multi-cellular organisms, including humans, are composed of and defined by interactions of the following:

- cells
- tissues
- organs
- systems