

JUNIOR HIGH SCIENCE  
INVESTIGATION 4  
WHAT IS RADON?

- CCS 2.1** (Health promotion and disease prevention) All students will achieve optimal wellness by learning and applying health promotion concepts and skills.
- A.3 Grade 6 Analyze the impact of health choices and behaviors on wellness.
- A.5 Grade 6 Discuss how technological advances have positive and negative impacts on wellness.
- CCS 3.2** (Writing) All students will write in clear, concise, organized language that varies in content and form for different audiences and purposes.
- D.7 Grade 8 Use a variety of primary and secondary sources and describe the value of each when writing a research report.
- D.13 Grade 8 When writing persuasive essays, present evidence, examples, and justification to support arguments, distinguishing between fact and opinion.
- D.14 Grade 8 Choose an appropriate organizing strategy to effectively present a topic, point of view, or argument.
- 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.
- CCS 5.6** (Chemistry) All students will gain an understanding of the structure and behavior of matter.
- A.1 Grade 8 Know that all matter is composed of atoms that may join together to form molecules.
- A.2 Grade 8 Recognize that the phase of matter is determined by the arrangement and motion of atoms and molecules and that the motion of these particles is related to the energy of the system.
- A.3 Grade 12 Know that an atom's electron arrangement, particularly the outermost electrons, determines how the atom can interact with other atoms.
- A.5 Grade 12 Explain how the Periodic Table of Elements reflects the relationship between the properties of elements and their atomic structure.

- CCS 5.7** (Physics) All students will gain an understanding of natural laws as they apply to motion, forces, and energy transformations.
- B.1 Grade 8 Describe the nature of various forms of energy, including heat, light, sound, chemical, mechanical, and electrical and trace energy transformations from one form to another.
- A.5 Grade 12 Know that there are strong forces that hold the nucleus of an atom together and that significant amounts of energy can be released in nuclear reactions (fission, fusion, and nuclear decay) when these binding forces are disrupted.