

JUNIOR HIGH SCIENCE  
INVESTIGATION 7  
WHERE DOES RADON COME FROM?

- CCS 4.5** (Mathematical processes) All students will use mathematical processes of problem solving, communication, connections, reasoning, representations, and technology to solve problems and communicate mathematical ideas.
- A.3 Grade All Select and apply a variety of appropriate problem-solving strategies (e.g., "try a simpler problem" or "make a diagram") to solve problems.
- B.1 Grade All Use communication to organize and clarify their mathematical thinking.
- Reading and writing
  - Discussion, listening, and questioning
- B.2 Grade All Communicate their mathematical thinking coherently and clearly to peers, teachers, and others, both orally and in writing.
- D.6 Grade All Evaluate examples of mathematical reasoning and determine whether they are valid.
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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.
- 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.
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- 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.

- CCS 5.8** (Earth Science) All students will gain an understanding of the structure, dynamics, and geophysical systems of the earth.
- D.1 Grade 6 Utilize various tools such as map projections and topographical maps to interpret features of Earth's surface.
- C.1 Grade 8 Explain how Earth's landforms and materials are created through constructive and destructive processes.
- C.2 Grade 8 Show how successive layers of sedimentary rock and the fossils contained in them can be used to confirm the age, history, changing life forms, and geology of Earth.