

HIGH SCHOOL EARTH SCIENCE  
INVESTIGATION 4  
WHAT DOES URANIUM OCCURRENCE AND DISTRIBUTION  
HAVE TO DO WITH RADON?

- CCS 5.6** (Chemistry) All students will gain an understanding of the structure and behavior of matter.
- B.1 Grade 4 Combine two or more materials and show that the new material may have properties that are different from the original material.
- B.1 Grade 8 Show how substances can chemically react with each other to form new substances having properties different from those of the original substances.
- A.2 Grade 12 Know that the number of protons in the nucleus defines the element.
- 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.
- A.6 Grade 12 Know that many biological, chemical and physical phenomena can be explained by changes in the arrangement and motion of atoms and molecules.
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- CCS 5.8** (Earth Science) All students will gain an understanding of the structure, dynamics, and geophysical systems of the earth.
- D.1 Grade 8 Utilize data gathered from emerging technologies (i.e. geographic information systems (GIS) and global positioning systems (GPS)) to create representations and describe processes of change on the Earth's surface.
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- CCS 5.10** (Environmental studies) All students will develop an understanding of the environment as a system of interdependent components affected by human activity and natural phenomena.
- A.1 Grade 8 Investigate the impact of catastrophic events such as forest fires, floods, and hurricanes on the environment of New Jersey.
- B.2 Grade 12 Use scientific, economic, and other data to assess environmental risks and benefits associated with societal activity.