

HIGH SCHOOL BIOLOGY  
INVESTIGATION 8  
HOW MUCH RADON IS AROUND YOU?

- CCS 4.2** (Geometry and measurement) All students will develop spatial sense and the ability to use geometric properties, relationships, and measurement to model, describe and analyze phenomena.
- A.6 Grade 6 Identify, describe, and draw the faces or shadows (projections) of three-dimensional geometric objects from different perspectives.
- A.7 Grade 6 Identify a three-dimensional shape with given projections (top, front and side views).
- A.8 Grade 6 Identify a three-dimensional shape with a given net (i.e., a flat pattern that folds into a 3D shape).
- D.6 Grade 8 Solve problems that involve compound measurement units, such as speed (miles per hour), air pressure (pounds per square inch), and population density (persons per square mile).
- A.4 Grade 12 Use reasoning and some form of proof to verify or refute conjectures and theorems.
- Verification or refutation of proposed proofs
  - Simple proofs involving congruent triangles
  - Counter examples to incorrect conjectures
- 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.
- A.1 Grade 12 When making decisions, evaluate conclusions, weigh evidence, and recognize that arguments may not have equal merit.
- B.1 Grade 12 Select and use appropriate instrumentation to design and conduct investigations.