

HIGH SCHOOL BIOLOGY
INVESTIGATION 5
HOW SENSITIVE ARE THE LUNGS TO RADON?

- CCS 2.1** (Health promotion and disease prevention) All students will achieve optimal wellness by learning and applying health promotion concepts and skills.
- C.1 Grade 8 Create and justify a healthy eating plan that considers health, cultural, environmental, and social factors.
 - D.3 Grade 8 Investigate local and state efforts to prevent and control diseases and health conditions.
 - D.6 Grade 8 Investigate health problems related to environmental conditions and recommend ways to reduce or eliminate them.
 - B.1 Grade12 Recommend behaviors to enhance and support the optimal functioning of body systems.
 - B.2 Grade12 Predict the impact of heredity and genetics on human growth and development.
 - D.3 Grade12 Assess local, state, national, and international efforts to prevent and control diseases and health conditions.
 - D.4 Grade12 Analyze the effectiveness of treatment efforts for various diseases and health conditions.
- 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.12 Grade12 Compile and synthesize information for everyday and workplace purposes, such as job applications, resumes, business letters, college applications, and memoranda.
- 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.

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 6 Select a technological problem and describe the constraints and criteria that are addressed in solving the problem.

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 products or system, how the product or system might fail, and how the product or system might be improved.

C.1 Grade 12 Plan, develop, and implement a proposal to solve an authentic, technological problem.

CCS 5.6 (Chemistry) All students will gain an understanding of the structure and behavior of matter.

A.4 Grade 12 Explain that atoms form bonds (ionic and covalent) with other atoms by transferring or sharing electrons.