

ELEMENTARY
INVESTIGATION 1
WHAT DO PEOPLE KNOW ABOUT RADON?

- CCS 3.2** (Writing) All students will write in clear, concise, organized language that varies in content and form for different audiences and purposes.
- A.5 Grade 3 Participate with peers to comment on and react to each other's writing.
- D.4 Grade 3 Understand the value of writing to communicate ideas.
- A.1 Grade 4 Generate possible ideas for writing through talking, hearing stories, brainstorming, discussing models of writing, asking questions, and recalling experiences.
- B.2 Grade 4 Write informational reports across the curriculum that frame an issue or topic, include facts and details, and draw from more than one source of information.
-
- CCS 3.5** (Viewing and media literacy) All students will access, view, evaluate, and respond to print, non-print, and electronic texts and resources.
- A.3 Grade 4 Use graphs, charts, and diagrams to report data.
- A.6 Grade 4 Demonstrate an awareness of different media forms and how they contribute to communication.
-
- 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.
- D.4 Grade 2 Estimate measures.
- D.1 Grade 4 Understand that everyday objects have a variety of attributes, each of which can be measured in many ways.
-
- CCS 4.3** (Patterns and algebra) All students will represent and analyze relationships among variable quantities and solve problems involving patterns, functions, and algebraic concepts and processes.
- A.1 Grade 6 Recognize, describe, extend, and create patterns involving whole numbers and rational numbers.
- Descriptions using tables, verbal rules, simple equations, and graphs

CCS 4.4 (Data analysis, probability, and discrete mathematics) All students will develop an understanding of the concepts and techniques of data analysis, probability, and discrete mathematics, and will use them to model situations, solve problems, and analyze and draw appropriate inferences from data.

A.1 Grade 4 Collect, generate, organize, and display data in response to questions, claims, or curiosity.

A.2 Grade 4 Read, interpret, construct, analyze, generate questions about, and draw inferences from displays of data.
· Pictograph, bar graph, line plot, line graph, table

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.1 Grade All Learn mathematics through problem solving, inquiry, and discovery.

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

C.4 Grade All Apply mathematics in practical situations and in other disciplines.

C.6 Grade All Understand how mathematical ideas interconnect and build on one another to produce a coherent whole.

E.1 Grade All Create and use representations to organize, record, and communicate mathematical ideas.

- Concrete representations (e.g., base-ten blocks or algebra tiles)
- Pictorial representations (e.g., diagrams, charts, or tables)
- Symbolic representations (e.g., a formula)
- Graphical representations (e.g., a line graph)

E.2 Grade All Select, apply, and translate among mathematical representations to solve problems.

F.1 Grade All Use technology to gather, analyze, and communicate mathematical information.

CCS 5.3 (Mathematical applications) All students will integrate mathematics as a tool for problem-solving in science, and as a means of expressing and/or modeling scientific theories.

D.1 Grade 4 Represent and describe mathematical relationships among variables using:

- graphs
- tables
- charts