

JUNIOR HIGH SCIENCE
INVESTIGATION 10
WHAT ARE THE RISKS FROM RADON?

- CCS 4.1** (Number and numerical operations) All students will develop number sense and will perform standard numerical operations and estimations on all types of numbers in a variety of ways.
- C.1 Grade 6 Use a variety of strategies for estimating both quantities and the results of computations.
- C.2 Grade 6 Recognize when an estimate is appropriate, and understand the usefulness of an estimate as distinct from an exact answer.
- C.3 Grade 8 Recognize the limitations of estimation and assess the amount of error resulting from estimation.
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- 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.2 Grade 6 Read, interpret, select, construct, analyze, generate questions about, and draw inferences from displays of data.
- Bar graph, line graph, circle graph, table, histogram
 - Range, median, and mean
 - Calculators and computers used to record and process information
- A.1 Grade 8 Select and use appropriate representations for sets of data, and measures of central tendency (mean, median, and mode).
- A.2 Grade 8 Make inferences and formulate and evaluate arguments based on displays and analysis of data.
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- 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.
- C.3 Grade All Recognize that mathematics is used in a variety of contexts outside of mathematics.

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 8 Represent and describe mathematical relationships among variables using:

- graphs
- tables
- charts