

HIGH SCHOOL GENERAL ACADEMIC
INVESTIGATION 10
HOW DOES RADIATION AFFECT YOU?

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 12 Evaluate the use of data in real-world contexts.

- Accuracy and reasonableness of conclusions drawn
- Bias in conclusions drawn (e.g., influence of how data is displayed)
- Statistical claims based on sampling

B.5 Grade 12 Estimate probabilities and make predictions based on experimental and theoretical probabilities.

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.

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

F.2 Grade All Use computer spreadsheets, software, and graphing utilities to organize and display quantitative information (cf. workplace readiness standard 8.4-D).

F.4 Grade All Use calculators as problem-solving tools (e.g., to explore patterns, to validate solutions).