

Family Friendly Math

STATISTICAL MODELING

Log on to the [SC Department of Education website](#), for the complete standards.

Statistical Modeling (SM) is a newly designed course that extends students' understanding of statistics. The standards and indicators in SM are Data, Probability, and Statistical Reasoning (DPSR) only. Students will develop statistical questions, collect and analyze data and interpret the results.

Prerequisite courses: Geometry with Statistics>Algebra 1>Algebra 2 with Probability

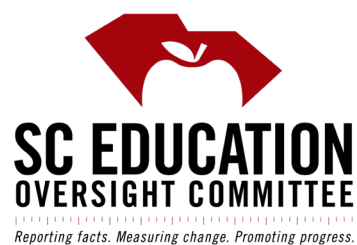


DATA, PROBABILITY, AND STATISTICAL REASONING

Statistical Modeling (SM) students will continue their learning from Geometry with Statistics, Algebra 1 and Algebra 2 with Probability.

- Calculate and interpret z-scores.
- Approximate percentages using Empirical Rule and z-scores.
- Describe and comply with the ethical use of data.
- Identify when data can be generalized.
- Describe quantitative and categorical data.
- Summarize and describe the relationship between two quantitative variables by correlation.
- Assess the fit of a linear model.
- Calculate and interpret the p-value for a population proportion, mean or to determine if population parameter is reasonable.
- Use simulations to describe and investigate to compare groups.
- Use statistical evidence to answer statistical questions.
- Determine the impact of extreme data points, missing or incorrect values on the results.
- Interpret margin of error to an estimate of population parameter.
- Explain the impact of multiple variables on one another.

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The South Carolina Education Oversight Committee (EOC) is an independent, nonpartisan group of 18 educators, business people, and elected officials appointed by the legislature and governor. The EOC enacts the South Carolina Education Accountability Act of 1998, which sets standards for improving the state's K-12 educational system. The EOC reviews the state's education improvement process, assesses how schools are doing, and evaluates the standards schools must meet to build the education system needed to compete in this century.