

Common Core Georgia Performance Standards

Grade Level: 9-12 Grade

Standards:

Linear Quadratic, and Exponential Models

Construct and compare linear, quadratic, and exponential models and solve problems

9-12.MCC9-12.F.LE.1 Distinguish between situations that can be modeled with linear functions and with exponential functions.

- 9-12.MCC9-12.F.LE.1a Prove that linear functions grow by equal differences over equal intervals, and that exponential functions grow by equal factors over equal intervals.
- 9-12.MCC9-12.F.LE.1b Recognize situations in which one quantity changes at a constant rate per unit interval relative to another.
- 9-12.MCC9-12.F.LE.1c Recognize situations in which a quantity grows or decays by a constant percent rate per unit interval relative to another.

9-12.MCC9-12.F.IF.7 Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases.

- 9-12.MCC9-12.F.IF.7a Graph linear and quadratic functions and show intercepts, maxima, and minima.