Expectation

1.4 The student will model, analyze, and apply exponential functions.

Essential Question

How do exponential functions model real-world problems and their solutions?

Enduring Understanding

The characteristics of exponential functions and their representations are useful in solving real-world problems.

Indicators

1.4.B.1 represent exponential functions numerically, algebraically, and graphically.

1.4.B.2 identify properties of exponential functions.

1.4.B.3 represent translations of exponential functions numerically, algebraically, and graphically.

1.4.B.4 apply exponential functions to real-world problems.

1.4.B.5 analyze patterns of change in data to determine if an exponential relationship appropriately models the data.

1.4.B.6 model data using exponential functions.

1.4.B.7 solve exponential equations algebraically and graphically.

Vocabulary

decay factor
decay rate
doubling time
growth factor
growth rate
half-life