

Essential Questions**Why?**

1. What makes a relationship linear?
2. Why are linear functions useful?

Enduring Understanding

Relations and functions can be represented numerically, graphically, algebraically, and/or verbally.

Linear functions represent situations involving a constant rate of change.

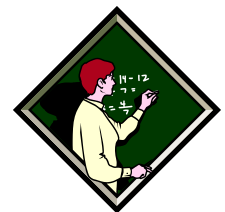
Expectations

Analyze a wide variety of patterns and functional relationships using the language of mathematics and appropriate technology.

Model and interpret real-world situations using the language of mathematics and appropriate technology.

What?**MCPS Indicators and Standards**

- 1.1.2.2 represent linear functions numerically, algebraically, and/or graphically.
- 1.2.1.1 determine the rate of change and the x - and y -intercepts of the graph of a linear function represented numerically, algebraically, and graphically.
- 1.2.1.2 interpret properties of linear functions, including rate of change, intercepts, and continuity, in the context of a real-world situation.
- 1.2.1.3 identify, describe, and apply the properties of a direct variation.

**Algebra**