

### Instructional Flow — Unit 2 — Linear Functions

#### Section 3.1

- average rate of change over an interval
- delta notation



#### Section 3.2

- linear functions characterized by a constant rate of change
- slope as an average rate of change
- slope determination from a table of values



#### Section 3.3

- modeling data with a linear function
- practical meaning of slope,  $x$ - and  $y$ -intercepts
- slope-intercept equation of a line
- applications of the slope-intercept form



#### Section 3.4

- writing linear functions in slope-intercept form
- relative error in a prediction using a linear model



#### Section 3.5

- slope and  $y$ -intercept of a line algebraically and graphically
- determination of a linear function given two points



#### Section 3.10

- line of best fit from data
- linear regression equations
- predictions from a line of best fit
- interpolation and extrapolation



#### Section 3.11

- piecewise functions
- numerical, graphical, and algebraic representations of piecewise functions
- applications of piecewise functions