

Model Matcher Answer Key

1. A. $y = 2x + 1$
2. F. $y = -3x + 12$
3. C. $y = x + 4$
4. D. $y = -x + 9$
5. E. $y = 3x + 1$
6. B. $y = -2x + 10$

Teacher's Guide

- Have students first classify each scatter plot as having a positive or negative association.
- Next, compare steepness to distinguish equations with similar directions.
- For extra support, have students eliminate all equations with the wrong slope sign before comparing slope size and intercept.
- For a challenge, ask students to estimate the slope and y-intercept of a plot before looking at the equation choices.
- Increase engagement by having partners justify matches using three clues: direction, steepness, and starting value.
- Extend the activity by having students sketch a new scatter plot that could reasonably be modeled by one of the six equations.