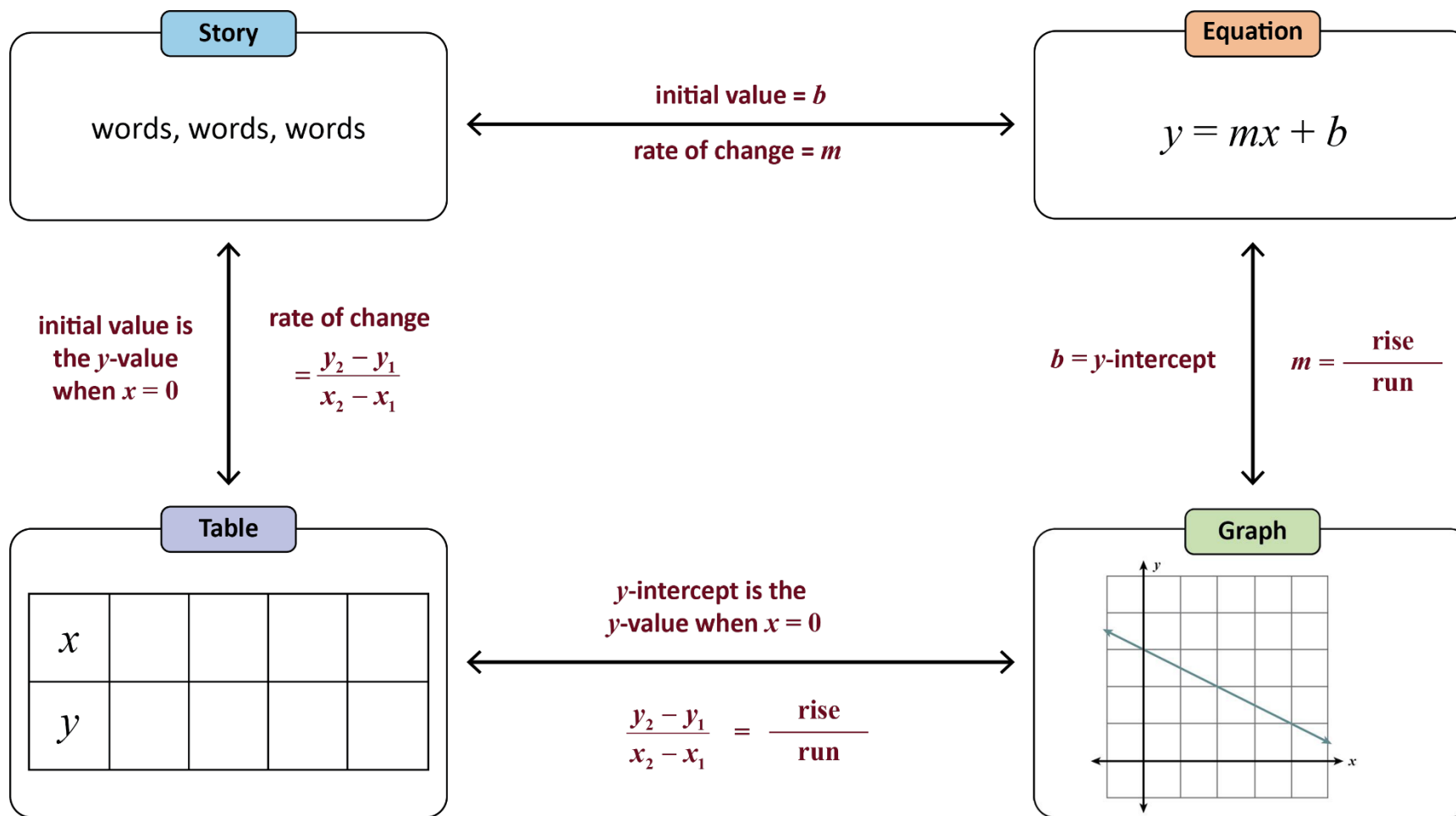


GUIDED NOTES: LINEAR REPRESENTATIONS (MODEL NOTES)



$$\text{slope} = \text{rate of change} = m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{\text{rise}}{\text{run}}$$

$$y\text{-intercept} = \text{initial value} = b = y\text{-value when } x = 0$$

Example

Story

Bryna is saving her money to buy a new pair of headphones. She has \$15 saved so far, and each week she plans to save another 75 cents.

Equation

$$y = 0.75x + 15$$

Table

| x | 0 | 1 | 2 | 3 |
|-----|-------|-------|-------|-------|
| y | 15.00 | 15.75 | 16.50 | 17.25 |

Graph

