Mathematics
Grade Eight – Pre-Algebra - Unit 5

Solving Systems of Linear
Equations Graphically

Applications

Systems of Linear Relationships

Solving by Inspection

Solving Systems of Linear
Equations Using Substitution
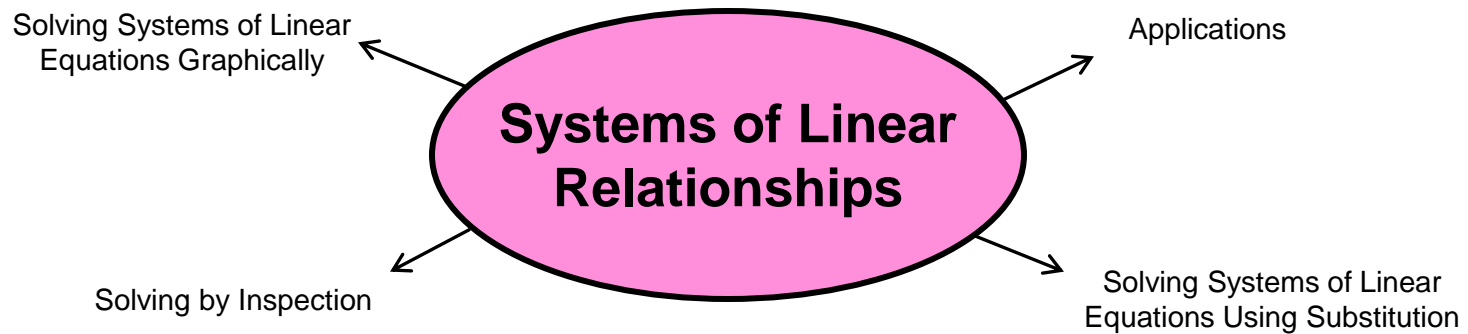
Essential Understandings:
- Linear equations
- One solution, infinitely many solutions or no solutions
- Transforming equations
- Coefficients
- Distributive property
- Combination like terms
- System of linear equations
- Graph linear equations
- Solutions (point of intersection)
- Substitution/ elimination methods
- Inspection
- Define variables
- Develop an equation from a word problem
- Word problem vocabulary
- Representing functions in 4 different ways
- Properties of functions (rate of change, intercepts)
- Linear functions
- Rate of change
- Slope formula
- Initial function value
- y-intercept

Content Vocabulary:

System of linear equations
Graphing method
Substitution method
Inspection
Solution
Simultaneous
Coordinate points
Intersect