

Learners will understand the importance of mathematical notation and order of operation and be able to apply it correctly to develop simple algorithms and solve algebraic equations.

Learning Goals	Assessment Activities	Learning Activities
Learners will be able to think of a mathematical equation as a common language.	Discussion	Watch video in foreign language and discuss why it would be difficult to communicate in a foreign country
Learners will be able to think of a mathematical equation as a path to a goal (algorithm).	Develop a puzzle using paper, Scratch, etc., with rules that allow everyone to follow the same path	Work a maze and/or game with rules to follow to arrive at the end, discuss how those rules can lead everyone to the goal
Learners will be able to translate simple algorithms into mathematical notation.	Translate previously developed puzzle into mathematical notation	Using mazes and games from previous lesson, translate to mathematical notation
Learners will know and apply the rules for order of operation to solve mathematical equations.	Practice problems, discussion	Read lesson, view videos, and review sample equations demonstrating order of operations
Learners will know and apply the rules for order of operation for algebraic equations.	Practice problems, discussion	Read lesson, view videos, and review equations with a variable substituted for a number to demonstrate order of operations
Learners will be able to apply order of operation to simplify mathematical and algebraic equations.	Practice problems, discussion	Read lesson, view videos, and review sample equations demonstrating simplifying equations