

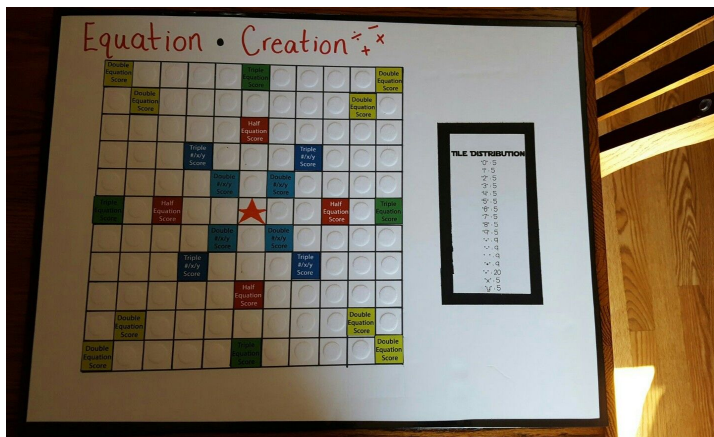
Equation Creation Presents:

# Math Scrabble

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## Game Overview:

This game will be played with **teams** instead of individually to create chances for cooperation. Two players will make up a team, and there can be 4 teams per board. The object of Scrabble is to score more points than one's opponent. A team collects points by placing numbers, operations, and variables on the game board. Each number, operation, and variable has a different point value, so the strategy becomes to play numbers and operations with high scoring combinations.



## The Scrabble Board:

A Scrabble game board is made of up cells in a square grid. The Scrabble board is 11 cells wide by 11 cells high.

## Scrabble Tiles:

- Math Scrabble is played with 100 tiles.
  - 98 of these tiles contain numbers and operations on them
  - 2 blank tiles. The blanks substitute for any number, variable or operation. Once played, a blank tile remains for the remainder of the game the number or operation for which it was substituted when first played.
- Various number and operations have different point values.
- Blank tiles have no point value.
- There will be an unlimited supply of equal (=) tiles, which players can pick from and must use each time they play tiles. There are no value to equal tiles.
- If no equation can be made, players must skip their turn. If an equation is played with a variable, teams must work together to solve for the variable and points will be given to all teams, once solved.

## How to Play:

1. Separate tiles into categories of numbers/variables and operators.
2. Select 4 tiles from each category.
3. Player with the lowest apartment/house number will start play then play will rotate counterclockwise.
  - a. The first team to play must play their equation through the center tile of the board (in any direction).
4. Play an equation and replace any used number tiles with new number/variable tiles, and used operations tiles with new operations tiles.
5. Calculate your score based on the numbers on the tiles, and the equation and number/variable multipliers on the board.
6. If an equation has a variable in it, all teams will be required to attempt to solve the equation. If the equation is solved correctly, the students will receive the number of points that the equation is worth.
7. Students will play until a team scores 100 points, or until no more moves can be made.

## Tile Values:

**0 Points:** Blank tile

**1 Point :** 1,2,3,4,5,6,7,8,9,and 0

**2 Points:** + and -

**3 Points:** x and y

**4 Points:**  $\times$  and  $\div$

## Extra Point Values:

**Double Number/Variable Scores** - Light blue cells are found isolated on the board. When a tile is placed on this space, that tile's point value is multiplied by two.

**Triple Number/Variable Score** - This is a dark blue cell on the Scrabble. The tile placed on this square has its points multiplied by three.

**Half Equation Score** - This is a dark red square on the Scrabble board. These are found on the four sides of the board equidistant from the four corners of the board. When a number or operation is played using this square, then the points for the number or operation are multiplied by three.

**Double Equation Score** - Yellow cells are found running diagonally towards the four corners of the board. When a player plays a number or operation on one of these squares, the point value of the number or operation is multiplied by two.

**Triple Equation Score** - This is a green square on the Scrabble board. These are found on the four sides of the board equidistant from the four corners of the board. When a number or operation is played using this square, then the points for the number or operation are multiplied by three.

**One Single Use** - Note that extra point squares are only usable once. If one player plays a number or operation using this cells, then the next time that space is used to make a number or operation, the point value is not multiplied.