**Expression War using Integer Cards**

**Equipment Needed**:

* + - * Two Decks of Integer Cards
			* ‘Deck’ of Expressions to evaluate or write your own on 5x8 index cards
			* Expression War PlaceMat
			* Calculator (optional)

**Players**: 2 players

**Rules/Procedures for Playing**

The Expression Mat is placed on the table. Each player ‘becomes’ the variable closest to them.

Each of the players will have a deck of integer cards face down on either side of the Expression Mat. Player 1 will place the ‘deck’ of expression cards face up on the Expression Mat.





Each player turns over one card from their deck.

The player on the left places his/her card under the ‘*x*’ and the player on the

right places his/her card under the ‘*y*’ on the Mat.





$$2$$

-3

As soon as possible, each player substitutes the value -3 for *x* and 2 for *y* and evaluates the expression on the Expression Mat : *x* + 2*y* to get1. Players record their expressions and the their value on the recording sheet.

The first player to respond correctly gets both of the cards just played. If there is disagreement as to the correct answer, the players must convince each other which is correct. If there is still disagreement, a third party may be asked.

 A first ‘round’ has been completed.

Two more rounds are played using the same expression card.

Before the fourth round, the expression card is replaced by a new one and play proceeds. Each expression card is used for a total of three rounds. A total of 15 rounds constitutes a completed game. The player with the most cards wins.

**Variations**:

1) Use a different expression for each round.

2) You only need five different Expression cards for each game. Here are some suggested sets of five:

 x + y x - y x - 3y x + y2

 2x + y 2x - y x - 4y x2 + y2

 3x + 2y -3x - 2y 2x - 3y 3x2 - y2

4(x + 2y) 2(3x - y) -3(x - y) (2x)2 + 2y2

 x + $\frac{y}{2}$ $\frac{x-y}{2}$ $\frac{1}{2}(x-y)$ x3 + $\frac{y^{2}}{y}$