Cover / Uncover



A homemade fraction game

- You first need to create a Fraction Kit. Start with 5 colors of 12x18-inch construction paper (red, blue, green, yellow, orange - or any combination you choose). Cut each color into 3x18-inch strips. Each person gets one strip of each color.
 - Keep the red strip intact and label it as 1 whole.

- Fold and cut the blue strip into halves and label each piece as 1/2

- Fold and cut the yellow strip into fourths and label each piece as 1/4

- Fold and cut the orange strip into eighths and label each piece as 1/8

- Fold and cut the green strip into sixteenths and label each piece as 1/16

(see other sheet)

- Also make 6 small squares of paper with each fraction written on the squares (1/2, 1/4, 1/8, 1/8, 1/16, 1/16) and fold into fourths. This will be the pile that each player will draw from on their turn.
- To play Cover:

- Take turns mixing the square papers and choose one

-Place the fraction piece you chose onto your 1whole red strip

-The goal is to cover the entire strip to the exact fraction in any combination based on what is drawn -If you only need a 1/8 piece left, for example, you must continue to draw on your turn until you get that exact piece.

• To play UnCover:

- Start with the two $\frac{1}{2}$ pieces covering the 1-whole piece.

Chose a fraction piece. The player can either remove the fraction that they drew, exchange for equivalent fractions then remove, or pass.
For example, if a player draws a 1/8 fraction when they have two ½ pieces, they can trade in one ½ piece for four 1/8 pieces, then remove one of them. If no more trading is possible, the player

should pass on the turn and wait for their necessary fraction to be drawn.

Burns, Marilyn. <u>Math: Facing an American Phobia</u>. Sausalito: Math Solutions Publications, 1998.

Quarter 1: Strand 1: PO 1: Concept 1 - Number Sense