What's The Total?

Materials

- 2 dice with numbers or dots from 1-6
- Crayons (1 for each student)
- One strip of paper with numbers from 2-12 for each student

2	3	4	5	6	7	8	9	10	11	12

Common Core

K.OA. 1 Represent addition and subtraction with objects

Foundations

NS 2.4 Solve simple addition and subtraction problems with a small number of objects (sums up to 10), usually by counting

Assessment

DRDP-SR
Measure 24: Number sense of quantity and counting ("How many pips are there all together?")

Measure 25: Number sense of mathematical operations ("How many is 3 pips plus 4 pips?")

Location: Inside/Outside **Group Size: 1-6** **Grade: TK**

Vocabulary:
How many; all together, add, subtract, take away, pips, zero, difference

Instructions:

1. Setup: You can play this game on any flat surface (table/floor/playground). Place dice in the middle and provide each student with a numeral strip and a crayon.

2. Ask a student to roll both dice.

3. Ask a student to add up the total amount of both the dice, "How many pips are there all together?"

4. Ask all students to find that sum/number on their strip of paper, and cross it out (e.g., if a four and two are rolled, the numeral 6 would be crossed out).

5. The next student rolls the dice and the students keep playing until all of the numbers are crossed out.

6. Note: Once students understand the game well, the group size could increase.

Plan and Differentiate

Scaffold Down

- Use dice or a spinner with smaller numbers (change numerals on strip accordingly).
- Pair up more knowledgeable students with less knowledgeable students and have them use the same numeral strip, with the less knowledgeable student crossing the numerals off.

Scaffold Up

Adjust numeral strip accordingly:
- Use dice or a spinner with higher numbers.
- Have the students subtract the lower number from the higher number (if equal, the difference is zero).
- Have each student cross off only those numerals that s/he has rolled (longer game). The game is over when everyone has crossed off all of their numerals (or at a specified time).