

## Unit 8: Reasoning with Equal Groups

### OVERVIEW

In this unit, students will work with equal groups. They will create arrays to solve problems. Students will extend their knowledge of equal groups to determine odd and even. Students will write and solve equations to represent equal groups and arrays with up to 5 rows and 5 columns. Students will also identify, describe, create, and extend numerical patterns in addition and subtraction as related to equal groups and arrays. Students will continue to review and develop their understanding of the value of numbers to 1,000, the counting sequence, and solve real-world problems involving addition and subtraction within 1,000. Keenville provides multiple ways to formatively assess student understanding using the following games. These games encourage students to show what they know and can do in a fun, interactive, game-based environment.



2.NR.3.2

Intergalactic  
Fair



2.NR.3.2

River  
Tubing



N/A

2.NR.2.1  
2.NR.3.1  
2.PAR.4.1  
2.PAR.4.2

### STANDARD & GAME ALIGNMENT DESCRIPTION

#### 2.NR.3.2 - Intergalactic Fair

In Intergalactic Fair, students are challenged to use repeated addition to create arrays. This game focuses on building numeracy skills by encouraging students to use repeated addition to build multiplication skills. Students will create rectangles based on a given repeated addition expression and find the total number of units within the array. Students will write an equation to express the total as a sum of equal addends in a rectangular array.

#### 2.NR.3.2 - River Tubing

In River Tubing, students help Lifeguard Keen put the correct number of Keens into groups based on the missing number in an equation. This game promotes numeracy skills in addition and subtraction within 100. Students will write an equation up to  $5 \times 5$  to represent repeated addition and gain understanding of multiplication.

