

Objective

By the end of this lesson, you will be able to apply arithmetic skills in a fun and engaging way through Minecraft.

Materials and Prep

- A computer or tablet with Minecraft installed
- Paper and pencil
- Basic understanding of Minecraft controls and gameplay

Activities

1. Activity 1: Counting Blocks

Start a new Minecraft world and enter creative mode. Build a structure using different types of blocks. Count and record the number of blocks used for each type. Calculate the total number of blocks used.

2. Activity 2: Multiplication Maze

Create a maze in Minecraft using different pathways and obstacles. Assign a multiplication problem to each pathway. For example, if the pathway has 3 obstacles, the problem could be 3×2 . Solve the problems as you navigate through the maze.

3. Activity 3: Fraction Building

Choose a specific area in Minecraft and build a structure using blocks. Divide the structure into equal parts to represent fractions. For example, divide a wall into 4 equal sections to represent $\frac{1}{4}$. Take screenshots and label the fractions.

Fourth Grade Talking Points

- "In Minecraft, we can use our math skills to count and calculate different things."
- "By counting the blocks we use, we can find out how many blocks are needed to build something."
- "Multiplication can help us solve problems faster. For example, if we have 3 groups of 2 blocks each, we can multiply 3 by 2 to find the total number of blocks."
- "Fractions can be represented in Minecraft by dividing structures into equal parts. Each part represents a fraction of the whole."
- "Remember to take screenshots and label your work to keep track of your progress."