

## Objective

By the end of this lesson, you will be able to apply basic arithmetic skills to solve Minecraft-themed math problems.

## Materials and Prep

- Paper and pencil
- Minecraft-themed math worksheets (you can create your own or find printable ones online)
- A computer or tablet with Minecraft installed (optional)

## Activities

1. Start by discussing with your student how math is used in Minecraft. Talk about how players need to count resources, calculate building dimensions, and solve puzzles to progress in the game.
2. Introduce addition and subtraction by using Minecraft-themed examples. For example, ask your student to imagine they have 5 blocks and they find 3 more. How many blocks do they have in total? Then, give them a subtraction problem like having 8 blocks and using 4 of them. How many blocks are left?
3. Next, move on to multiplication and division. Explain that multiplication is like repeated addition and division is like sharing or splitting things equally. Use Minecraft-themed scenarios to make it more engaging. For instance, ask your student how many blocks they would have if they had 4 stacks of 6 blocks each.
4. Provide Minecraft-themed math worksheets for your student to practice their arithmetic skills. You can create problems involving counting blocks, adding or subtracting resources, or even solving word problems related to Minecraft challenges.
5. If you have access to a computer or tablet with Minecraft installed, let your student explore the game and apply their math skills in a practical way. For example, they can count the number of blocks needed to build a structure or calculate the amount of resources required for crafting.

## First Grade Talking Points

- "Math is important in Minecraft because it helps us count resources and solve problems in the game."
- "Addition is when we put numbers together to find the total. For example, if we have 3 blocks and find 2 more, we have a total of 5 blocks."
- "Subtraction is when we take away or remove some numbers. For instance, if we have 6 blocks and we use 4 of them, we are left with 2 blocks."
- "Multiplication is like repeated addition. If we have 3 stacks of 4 blocks each, we can add  $4+4+4$  to find that we have 12 blocks in total."
- "Division is like sharing or splitting things equally. If we have 12 blocks and want to share them equally among 3 friends, each friend would get 4 blocks."
- "Now, let's practice our math skills with some Minecraft-themed worksheets. Solve the problems and see how well you can apply what you've learned!"

- "If you have access to Minecraft on a computer or tablet, try using your math skills while playing the game. See if you can count blocks or calculate resources needed for different tasks."