



# Fraction Stories

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## World Required

- Create new creative world with an example house and assignment boards for the students.
  - Ex: Build a house where half the walls are red and half the walls are blue. Place a NPC in the house. Write the assignment on a board. Write the beginning of your story on another board: "A man lives in a house where  $\frac{1}{2}$  of the walls are red and  $\frac{1}{2}$  of the walls are blue.

## Age Group(s)

- Ages 9-12

## Subject Area(s)

- Math

## Skill(s) Developed

- Collaboration
- Communication

## Learning Objective(s)

- Students will learn about different aspects of fractions (before making their fraction story)
- Students will show understanding of how fractions are used in their everyday life and language.
- Students will demonstrate clear communication of math work.

## Lesson Description

- **Part 1:** Fraction work before story telling:
  - Understanding the concept of fractions by working on the subject:
    - What is a fraction: written and drawn fraction; comparing fractions
      - Outside Minecraft: Using centimeter cubes, graph paper.
      - Inside Minecraft: Building fractions based on instructions.
- **Part 2:** Working on fraction story in pairs or small groups:
  - Show example house in creative world to class, go through assignments

- **Assignment:** Make a fraction story. Build a house and have fractions build into the interior, garden, food etc. You will get 'world builder' ability so you can make boards and NPCs.
      - Example house also features the beginning of a fraction story for inspiration. "A man lives in a house where  $\frac{1}{2}$  of the walls are red and  $\frac{1}{2}$  of the walls are blue."
      - Have pairs find a building space in the world – remind them not to build too close to each other.
      - Give students 'world builder' ability, so they can use NPC's and boards for their story telling.
      - Students will build and write a story that incorporates fractions.
- **Part 3: Presentation:**
  - Students and/or the teacher uses the camera and portfolio to document the story.
  - Results can be shared with Power Point, Sway or another presentation media.

### Evidence of Learning

- By building a living space the students show understanding of how fractions and math are a part of their everyday life.
- Screenshots/in game pictures/screencast showing the connection between what is written and what is build
- Some students will write simple text; others will write more elaborate stories where they use fractions in describing what they build.

### Curriculum Extensions

- Have students plan out their build on paper before they start building in Minecraft.
- Require that other parts of math are used in the story.
- Require a specific amount of fractions that need to be in the story.
- Have students build their story – not write, then have other students visit, find, and write.
- Have students write fraction stories then have someone else build it.

Student Work (Grade 3)





