

Fraction Fantasy

Fifth Grade + Math

CORE SUBJECT AREA

Math

ART FORM + ELEMENTS

Drama
Readers Theater

MSCCR STANDARDS

CCSS.MATH.CONTENT.5.NF.A.1 Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators.

For example, $\frac{2}{5} + \frac{1}{4} = \frac{8}{20} + \frac{5}{20} = \frac{13}{20}$.
(In general, $\frac{a}{b} + \frac{c}{d} = \frac{ad + bc}{bd}$.)

MSCCR CREATIVE STANDARDS

TH: Pr6.1.5.a Present drama/ theater work informally to an audience.

DURATION

75 minutes

OBJECTIVE

TSW add and subtract fractions with unlike denominators.

TSW present a theater work informally to an audience.

MATERIALS NEEDED

Paper
Pencils

VOCABULARY

Fraction
Denominator
Addition
Subtractions
Reader's Theater
Least common multiple

RECOMMENDED RESOURCES

“Fraction Fantasy” Reader’s theater script

https://docs.google.com/document/d/1a_YOqWFDwDNKdRCue_R0hmZOM20LYJ2tAftzACiKEQ/edit

Actor’s Toolbox Google Slides presentation

https://docs.google.com/presentation/d/1aHfjGZMkW1PxCn9jyEsz380pTJQA6KSB0jvqLIUThw/edit#slide=id.g3b7f370f8d_0_45 (Working on the link)

LESSON SEQUENCE

Introduction

TWW begin by telling TS she has a problem she needs them to help her solve. Then, the teacher will present the student with this problem:

“If Jack has $\frac{5}{6}$ of a pound of magic beans and the Giant has $\frac{1}{4}$ of a pound of magic beans, how many magic beans do they have together?”

- How do they solve this problem?



Next, the teacher will give the student time to try the problem with a partner. TTW observe the various ways the student attempts to solve the problem. Then the teacher will ask several pairs of students to share their ideas.

TTW tell the student that this problem uses fractions with unlike denominators. The teacher will then model to the student how to solve the problem.

TTW explain to the student that when you are adding or subtracting fractions with unlike denominators, you must first find the least common multiple.

TTW will model finding the least common multiple (12) and changing the fractions to find the correct answer (1 and $1/12$.)

Transition

TTW introduce the student to Reader's Theater using the Google Slides Presentation.

The teacher will then review the Actor's Toolbox with the student: body, voice, imagination, concentration, and cooperation.

TTW use the video found at <https://www.youtube.com/watch?v=xGVgBNpPcaAI> to review the components of the Actor's Toolbox with the student.

TTW play the video for the student. The teacher and the student will then do the exercise from the video. Then, the teacher will tell the student that they will be using their voices during today's reader's theater production to show the emotions of their characters.

Description

TTW review the expectations for performing in the reader's theater.

TTW remind the students of the expectations of the audience.

Then, TTW distribute copies of the "Fraction Fantasy" reader's theater script. The teacher will assign the students characters to play.

Next, the teacher will review with the student how to use a script when performing in a theater production. The students will have 5 minutes to rehearse the scene with the other students who are in the scene with them.

TSW present the reader's theater "Fraction Fantasy." The students who are not currently participating in the scene will solve the fraction problems along with the characters and will participate where the script requires them to.

SOURCES

<http://web.harrisonburg.k12.va.us/sses/uploads/Arts%20Integration.pdf>