

Fraction Glossary and Terms

A LESSON PLAN by Maria Evgeneia Pontikaki
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Grade 5

General Information about the resource

The specific lesson plan includes the activities that were carried out, with the initial purpose of facilitating the 5th grade students of our school in memorizing specific mathematical terminology, through learning songs with lyrics related to the terminology of fractions.

The students' difficulty lies in learning and using this mathematical terminology. That's why we were inspired by the song above, making a musical math glossary, better embedding the terminology of fractions.

Keywords: fraction, like, unlike, equivalent, creative movement

Further notes about the resource and its use:

1. **Cognitive objective:** Students are to master and memorize special mathematical terminology related to fractions. More specifically, we referred to like, unlike and equivalent fractions.
2. **Prior knowledge:** Students know the concept of a fraction and what each fraction represents.
3. **Material and technical infrastructure:** Classroom with table, chairs, computer, TV screen
4. **Time:** One teaching period (45 minutes)

Application

First Activity: Make up a song about fractions.

Keywords: same denominators, like, unlike

The like fractions can be added and subtracted easily. In order to add and subtract unlike fractions you first have to convert them into like fractions. The same denominators mean that the fractions represent the same value, they depict the same parts of a whole unit, they belong to the same family, they have the same surname. The like fractions are not equal if they do not have the same numerator, unlike fractions can be equivalent though.

A song in English made with the help of AI (<https://chat.openai.com>):

In the world of fractions, let us explore,
All of like and unlike fractions, we'll adore.
Like fractions, they share the same denominator.
They're quite similar, but they might have different numerators.
Two-thirds and four-sixths, they're like fractions indeed,
Equal in value, they fulfill our needs.
Half and one-eighth, a different class they belong,
Unlike fractions, with values that differ strong.
Like fractions, they make counting parts a breeze,
Equal denominators, they put our minds at ease.
Unlike fractions, they challenge us with their variety,
Different denominators, with values of disparity.



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But fear not, for fractions teach us to compare,
Like and unlike, they both have their flair.
Let's embrace the beauty of fractions so grand,
For they expand our understanding and expand.
So let us delve into the world of fractions with delight,
Discovering the wonders of like and unlike with all our might.
For fractions are a magical realm, full of intrigue,
Where numbers come alive and our knowledge takes a league.

Second Activity: Creative movement with the following song from the NUMBEROCK platform about equivalent fractions.

<https://numberock.com/lessons/equivalent-fractions/>

The song is also on YouTube

Equivalent Fractions Song For Kids | 3rd Grade - 4th Grade

The NUMBEROCK platform (<https://numberock.com/>) includes a collection of many songs and videos with mathematical content even in its free form.

After the students watch the video and ask questions, we can give them the lyrics of the song as a worksheet and fill in the blanks by omitting the underlined words.

Equivalent fractions

If there were four socks to wear,
then we would say there'd be two in each pair;
and one of the two pairs, we can declare,
equals two fourths of all the socks there.
Drawing one half and two fourths on a number
line shows they can be described with an equal sign;
an equal value is what they're worth
so we say one half is equivalent to two fourths.

Equivalent fractions is the name
for fractions whose values are the same.

Once upon a time, there were nine canaries
on telephone wires, sittin' down in threes.
Each wire contained one third of the birds,
so three ninths is equivalent to one third.

Drawing one third and three ninths on a number
line shows one third equals three parts out of nine.

Therefore, equivalent is the word
that describes three ninths and one third.

Equivalent fractions is the name
for fractions whose values are the same.



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If the numerator and denominator share a common factor, then you can divide the top and bottom by the same number.

On top and under, and say with satisfaction,

“We found an equivalent fraction”.

And you can multiply the top and the bottom

by the same number on top and under,

which is really a fraction whose value equals

one,

and through this action we found an equivalent fraction!

Equivalent fractions is the name

for fractions whose values are the same.

(The values are the same! Woo!)

Equivalent fractions is the name

for fractions whose values are the same.

(Uh-huh! Uh-huh! The values are the same!)

Reference:

<https://youtu.be/K1EtxcKWtB4>

https://www.ducksters.com/kidsmath/fractions_glossary.php

