

DAILY LESSON PLAN

Math GRADE:4

(NO.1/13)

DAILY LESSON PLAN

Unit 3: Fractions.

Date: _____

Topic: Fractions, Like and Unlike Fractions,
Equivalent Fractions.

Year Level: 4

Key Learning Area: Types of fractions, Simplification of fractions,
equivalent fractions,

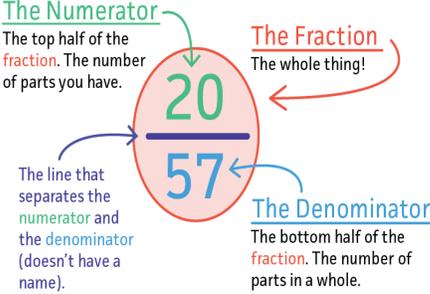
Outcomes: Students will know how to differentiate the like and unlike fractions.

Students will know how to compare two unlike fractions

Students will know how to convert unlike fractions into equivalent fractions.

Lesson Structure:

Time	Introduction (Set):	Teaching Approaches
10 min.	Prepare for the topic by recalling the previous knowledge about fractions. Ask them to define	Warm-up Activity: Write a fraction on the board ask your students to mention

<p>and give examples of basics of fractions. Share the answer and preview vocabulary.</p> <p>Once the students respond to the warm up activity. Help them by recalling by giving definition and examples of fraction as:</p> <p>Fractions represent parts of whole numbers. Numerator (number on top) represents how many parts of the whole you have. Denominator (number on the bottom) represents how many equal parts the whole is divided into.</p> 	<p>the components of the fractions as:</p> <p>Numerator and denominator</p> <p>Inquire about the types of the fraction.</p> <p>Pizza Puzzle:</p> <p>Show students a pizza puzzle that has been partitioned into different shares (sizes). Then give students different shares and review equal and unequal parts of a whole.</p>
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LESSON STRUCTURE:

Time	Main Content:	Teaching Approaches
25 min.	<p>Tell the students there are six types of fractions but today we are going to explore “like fractions, Unlike fractions and equivalent fractions”</p> <p>Teacher will define like and unlike fractions with examples on the board. Use daily life fractional</p>	<p>Like Fractions</p> <p>Teacher will illustrate the like fractions through pictorial way.</p> <p>Tell your students that the simplification of such fractions</p>

applications for better understanding of the concepts.

Once the students get the concepts of like and unlike fractions, introduce the concept of *Equivalent Fractions* as:

When two fractions have different denominators, we cannot compare them. In order to compare them we have to find the equivalent fractions which have the same denominator.

Teacher will explain with examples that there are two ways of forming equivalent fractions:

- *By multiplication*
- *By Division*

Forming of Equivalent fractions by Multiplying:

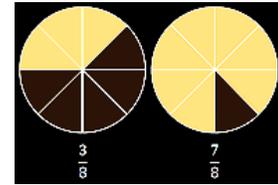
Teacher will explain forming of equivalent fraction by multiplying, as:

$$\frac{1}{2} \times \frac{2}{2} = \frac{2}{4} \qquad \frac{1}{2} \times \frac{3}{3} = \frac{3}{6}$$

Forming of Equivalent fractions by Division:

Teacher will explain forming of equivalent fraction by dividing the same number with numerator and denominator as:

is easy, as all the denominators here are the same.

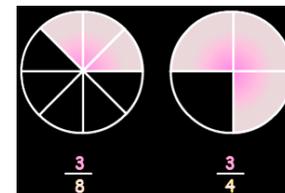


Unlike Fractions:

The fractions which have unequal denominators or different denominators are called, unlike fractions. For example $1/2$, $1/3$, $1/4$, $1/5$, are unlike fractions.

Since the denominators here are different, therefore it is not easy to add or subtract such fractions.

To perform arithmetic operations like addition and subtraction, we have to convert the unlike fractions into like fractions first. Then we perform the required operation.



Worksheets:

Handover worksheets where students need to deal with the unlike fractions to convert them into equivalent fractions by both methods.

$$\frac{18}{36} \xrightarrow{\div 3} \frac{6}{12} \xrightarrow{\div 6} \frac{1}{2}$$

Teacher will give the related fractions on the board and encourage the students to come and join the teacher on the board. While other students will try to solve the same fraction on their notebooks.

Closely observe their performance assist them where they need help.

Once the students get the concept ask them to solve the page number 61-67 of *incredible Mathematics of grade 4*.

Activity 1:

Prepared some unlike fractions and their equivalent fraction's card. Distribute them among your students and ask them to find the student with the equivalent fraction.



Time	Conclusion:	Teaching Approaches
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5 min.	<p>Students will be able to:</p> <ul style="list-style-type: none">• Define fractions and its two types: Like and Unlike fractions.• Identify the like and unlike fractions and solve the related sums• Define equivalent fractions and its two methods.• Convert the unlike fractions into equivalent fraction	<p>Review the lesson with students.</p> <p>Ask students, "what did we learn about fractions and its types today"?</p> <p>Give enough practice as homework</p> <p>Ask for questions.</p>
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Resources:

Division/cake method worksheets, Chart paper and marker, Common multiples and factors worksheets, Incredible Mathematics Grade 4 book, notebooks etc.

Safety Consideration/ Materials

None

Assessment

Related worksheets

Board test

Mind-teasers.

Quiz etc.

Reflection

The students have understood that how to:

- Define fractions and its two types: Like and unlike fractions.
- Identify the like and unlike fractions and solve the related sums
- Define equivalent fractions and its two methods.
- Convert the unlike fractions into equivalent fraction

