



LESSON PLANS

“Working with fractions”	
Lesson plan to be implemented in Math class	
Aim	The aim of the lesson, which lasts 45 minutes, is students to remember whatever they have been involved in the previous grades of Primary School, especially the 5 th , with regard to fractions, their value and, at the same time, modify false assumptions about them.
Students age targeted	Students of 6 th Grade
Estimated time	45 minutes
<ul style="list-style-type: none"> Topics covered 	<ul style="list-style-type: none"> recall already known material from past classes. recall already known material from everyday life. reconsider false interpretations. compare and arrange similar and dissimilar fractions. experiment, try and verify through playful situations.
Facility/ Equipment	<ul style="list-style-type: none"> Classroom Internet access Projector White board big and small sweets like chocolates and candies
Tools/ Materials	<ul style="list-style-type: none"> Handout 1 Handout 2
Development of activities	<p>1st activity,5 minutes: The teacher shows on the projector the materials of a pastry recipe and gives the quantities with fractions e.g: ½ kilo of sugar,1/4 kilo of butter, 2/3 kilo of flour etc. Teacher and students discuss and speculate which leads to students recalling their knowledge from past classes. They refer to cases from their everyday life when quantities or prices are given through fractions e.g prices during sales time. Teacher writes on board students’ ideas.</p> <p>2nd activity,10 minutes: The teacher splits a big chocolate or something else into uneven pieces and gives them to students waiting</p>



for their reactions. These reactions are strong evidence for the necessity of a fair sharing which is succeeded through fractions
We repeat the previous process with chocolates or candies. Students eat the splits that they should.

3rd activity,10 minutes: We direct discussion to the improper fractions through specific questions and we write students' answers on board. The knowledge that arises leads to the enrichment of their mental capacity or the denial of former false assumptions. E,g how much is 10/8 of pizza,12/10 chocolate etc.

4th activity,5 minutes: Students are asked to announce their conclusions from the process of learning using terms such as: fractional unit, similar, dissimilar fractions, improper fractions

5th activity,10 minutes(implementing new ideas)

Teacher shows on the projector the unit of phet Colorado in which children make fractions and , afterwards, they get involved in games of classified difficulty. The instant feedback as well as their playful characteristic attracts students' enthusiasm and ,at the same time, the assessment of the educational process is being done.

Homework 5 minutes: The teacher explains the activities students take as homework which will help them practice fractions at home.



HANDOUT 1: title

https://phet.colorado.edu/sims/html/build-a-fraction/latest/build-a-fraction_el.html



HANDOUT 2: title

https://phet.colorado.edu/sims/html/fraction-matcher/latest/fraction-matcher_el.html