MODERN CLASSROOMS MODERN EDUCATION	
PRIMARY SCHOOL BELTINCI, SLOVENIA TEACHER: Anita Zadravec	
LESSON PLAN	
LEVEL: **LOWER SECONDARY**	LESSON NUMBER: **1**
AGE OF STUDENTS: 12	
UNIT: **Doing calculations with fractions**	SUBUNIT: **Substraction of fractions with the same denominators**

GENERAL GOALS:

Students:

- substract the fractions with the same denominators,
- use models to demonstrate the substraction of fractions with the same denominators.

VOCABULARY covered during the lesson:

fractions, numerator, denominator, mixes numbers, simplifying, decimal numbers

REQUIRED PRE-KNOWLEDGE:

Calculation with decimal numbers, fractions

SPECIFIC OBJECTIVES (specify skills / information that will be learned):

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MATERIALS NEEDED:	OTHER MATERIALS NEEDED: (realia, apps or programs):
- blackboard - IWB + projector - computers camera	- Webpage: (https://teach.conceptuamath.com/app/tool-library https://play.kahoot.it/#/k/791f0ca9-782e-41da-8d3e-898a57e5815e) - PowerPoint presentation - Worksheet 1, 2 - Graphical representation of fractions

Course of the lesson:	

I. Checking pre-knowledge and motivation

TEACHER	STUDENT
• Revision of fractions with the students. 1. Fraction $\frac{7}{9}$ numerator / denominator 2. Mixed numbers are bigger than 1. A mixed number is a combination of a whole number and a common fraction. For example: $$4\frac{5}{6}$$ $$4\frac{5}{6} = \frac{29}{6}$$ 3. Simplifying fractions To simplify a fraction you divide the numerator and the denominator by the largest number that divides both of them. For example: $$2\frac{27}{54} = 2\frac{27:9}{45:9} = 2\frac{3}{5}$$ 4. Decimal numbers $$0{,}6 = \frac{6}{10}$$	Students answer the questions. Students do worksheet 1.
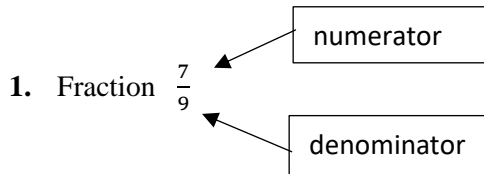
II. Acquisition of knowledge

TEACHER	STUDENT
• Writes a calculation $\frac{8}{9} - \frac{5}{9}$ on the blackboard. What do the fractions have in common? How do we substract the fractions with the same denominators? • Writes a calculation $1 - \frac{5}{8}$ on the blackboard.	Students answer the questions and write the rule. Students do worksheet 2.

The whole is divided into eight equal parts: $\frac{8}{8} - \frac{5}{8}$.	

III. Practice

TEACHER	STUDENT
• **Didactic play** Instructions: - You have 5 minutes to do the tasks. - Form groups of 8 students. - There are papers with a graphical demonstration of substraction of fractions. - One student from each group takes one piece of paper. All the students in the group write down a calculation and a solution. - Only then the group can change the paper. They check their solutions on a powerpoint presentation. • They check the students' knowledge on a website kahoot.	They do the tasks. They check solutions. They do a quiz. https://play.kahoot.it/#/k/791f0ca9-782e-41da-8d3e-898a57e5815e