

Unit Title: Addition and Subtraction in the First-Grade Classroom

Grade Level: 1st grade

Subject Area: Math

Duration/Length/Number of class periods: 5 Math Lessons

Description:

Students will add and subtract using technology tools to show part, part, total relationships.

Established Goals (National, State, Local):

1.1.2.1 Minnesota State Standard: Use words, pictures, objects, length-based models (connecting cubes), numerals and number lines to model and solve addition and subtraction problems in part-part-total, adding to, taking away from and comparing situations.

What Enduring Understandings are desired

Numbers have relationships with equations.

What Essential Questions will be considered?

How do the parts of numbers in addition relate to the total equation?

How do the parts of numbers in subtraction relate to the total equation?

Why should I use pictures to show addition problems?

Why should I use pictures to show subtraction problems?

Students will know / be able to use technology tools to demonstrate part-part-total relationships with pictures and models to show addition and subtraction equations.

Description Students will understand the relationship with addition and subtraction using part, part, total equations.	Formative	Summative	Introductory Activity	Learning Activity	Student Technology Used	Teacher Technology Used	ISTE Standards
Lesson 1: Students will participate in a lesson using part, part, total equations. in addition and subtraction. They will have access to manipulatives for the part, part, total equations and practice addition and subtraction skills using fact families with the Fingerpaint drawing tool app on the iPad.			X		X		

Lesson 2: Students will participate in a lesson using part, part, total equations in addition and subtraction. They will complete an assigned SeeSaw activity with fact family houses and submit it for review. Oral and written responses will be reviewed on SeeSaw.	X			X	X	X	
Lesson 3: Kahoot will be used for a formative assessment on part, part, total equations directed by the teacher with the class.	X			X	X	X	
Students will solve problems in addition and subtraction for summative assessment following the rubric created on rubistar. The ISTE standard used for this assessment is critical thinking, problem solving and decision making.		X			X		X

Materials, tools and resources:

- *Kahoot game
- *Rubistar with a rubric
- *Seesaw activity
- *Manipulatives with linking cubes
- *Fingerpaint app
- *Assessment resources
- *iPad

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Day-to-day lesson plan:

- Students will engage in the activities listed above until understanding is displayed.
- Addition skills relating to part, part, total relationships will be introduced first.
- Subtraction skills relating to part, part, total relationships will be introduced as the second step in understanding how numbers have relations to equations.
- Addition and subtraction skills will be linked together with part, part total relationships and fact families when students demonstrate understanding of the relationship to the equations using formative assessments.

The final summative assessment will be given at the end of the unit.