

Fact Families

Lesson Summary Allow students to explore inverse operations of addition and subtraction.

Major Topic and SOL
Math SOL (2009) 3.2

Length of Unit 70 Minutes

Student Objectives

In Mathematics the student will be able to:

- Recognize and use the inverse relationships between addition and subtraction to complete fact sentences

In Language the student will be able to:

- Discuss how addition and subtraction facts are related
- Explain how they chose the correct number to complete the equation

21st Century Skills

- Critical-thinking and Problem Solving
- Communication
- Creativity and Innovation
- Collaboration
- Information and Media Literacy
- Contextual Learning

Assessment Evidence

- Teacher observation using anecdotal notes and paper/pencil assignments.

Supplies/Materials/Technology

- Smartboard
- Fact Family lesson adapted from <http://exchange.smarttech.com/>

Lesson Plan

Motivation & Building Background:

- **Background:**

- Students' prior knowledge of addition and subtraction facts will be necessary for this lesson
- **Motivation:**
 - Students' previously used manipulatives to complete fact families using paper and pencil. Integrating the Smartboard will motivate and engage students to participate in understanding the inverse relationship of addition and subtraction sentences.

Presentation

- The teacher will use examples on the Smartboard to introduce fact families and engage the students.
- The students will then be allowed to actively engage in the lesson by writing the correct number in the fact family houses.
- After group discussion, the class will then determine if the responses were correct.
 - The relationship between addition and subtraction will also be discussed.

Practice/Application

- The teacher will allow students to roll virtual dice on the Smartboard and use the numbers to create their own fact family.
- Classmates will write related equations on the Smartboard.