



**San Joaquin County Office of Education**  
**Mathematics Professional Learning Opportunity**  
**- 2017/2018 -**

**GRADES 3-7**

**Understanding the Fraction  
Progression**

Traditionally, fractions have been taught as if they are in a “different galaxy” and fraction instruction has long been viewed as a problem area.

“The ultimate underlying principle is you want kids to understand that fractions are numbers,” said William G. McCallum, a mathematics-education professor at the University of Arizona, in Tucson, and one of the lead writers of the common standards. “They’re new, but they’re not in a different galaxy.”

In this session, participants will explore the following:

- What are the significant shifts in teaching fractions in the California math standards for the 21<sup>st</sup> century?
- Why is the number line important and how can it be used to help develop understanding and fluency?
- What other representations support student learning?

Participants will study the fractions progression, engage in a variety of tasks and activities, and learn how to develop fraction sense as well as how to implement effective instruction on fraction skills, concepts, and application in conjunction with the Standards of Mathematical Practice.

**Cost: \$250 per person**

**November 16 & 17, 2017**

***Registration Deadline:***

***November 6, 2017***

**REGISTRATION**

<http://formbuilder.sjcoe.org/form.aspx?f=679>