

LAUSD LUCI COURSE DESCRIPTION

K-1:

Participants attend a 40 hour institute designed to increase teacher competence and confidence in the mathematics they teach, improve and enhance their instructional strategies and address issues of English Language Learners. The program is designed to provide teachers with a cohesive, coherent, and mature look at mathematics taught in the primary grades and emphasis is placed on building mathematical ideas based on children's prior knowledge. Topics include counting concepts, place value, analysis of arithmetic problem types, addition and subtraction computation strategies, shapes and their properties, algebraic thinking through patterns, measurement, and assessment strategies. This program is heavily influenced by Cognitively Guided Instruction research 40 hours. In addition to the 40 hour institute, participants are required to submit an implementation activity log before the end of the course. *mention of follow up or implementation log

2-3

Participants attend a 40 hour institute designed to increase teacher competence and confidence in the mathematics they teach, improve and enhance their instructional strategies and address issues of English Language Learners. The program is designed to provide teachers with a cohesive, coherent, and mature look at mathematics taught in the primary grades and emphasis is place on building mathematical ideas based on children's prior knowledge. Topics include place value, computation strategies with emphasis on multiplication and division of whole numbers, fraction concepts, algebraic thinking, shapes and symmetry, length and area, and concepts of probability. This program is heavily influenced by Cognitively Guided instruction research 40 hours. In addition to the _hour institute, participants are required to submit an implementation activity log before the end of the course. *mention of follow-up or implementation log.

4-5

Participants attend a 40-hour institute designed to increase mathematics content and develop effective instructional strategies aligned with the California Mathematics Standard. Topics include patterns, concepts of variable, generalizing arithmetic, graphing, multiplication and division of whole numbers, fraction concepts and operations, introduction to integers, and applications of factors and multiples; properties of one-, two-, and three-dimensional figures; measurement of linear, plane and solid shapes; spatial reasoning and visualization; probability; interpreting and analyzing data graphs; and decimals fractions. Issues surrounding assessment and intervention are included also. 40 hours. In addition to the 40 hour institute, participants are required to submit an implementation activity log before the end of the course. *mention of follow-up or implementation log.