



S. Umamaheswari, Phd

Dean, Akshaya Vidyalaya

A unit of Akshaya Trust



uma@akshayachennai.org



Kanchipuram, India

Education

Ph.D in Math Education- Georgia State University- 2014

M.Ed-Annamalai University-2001

M.Sc Mathematics-Madras University-1985

Profile

A passionate educator and instructional leader with 35 years of experience in education at all levels, with a strong commitment to supporting and growing teachers aimed towards students' holistic development.

Experience

- 20 plus years of teaching mathematics at the high school level for the Tamil Nadu State Board and CBSE Board in Chennai
- Used several hands-on activities and innovative strategies in the math classroom, motivating students and making math a learner-friendly subject under the mentorship of Shri.P. K.Srinivasan
- Acted as Coordinator for the primary Algebra festival about the National MHRD project Primary Algebra Class-3.
- Assisted in the conduct of an Introductory Course on 'Fuzzy Logic' for the city schools' teachers of Chennai.
- Wrote and published reference material for higher secondary students to prepare for the Tamil Nadu Engineering Entrance Examinations
- Conducted numerous workshops as a Resource person for teachers and parents in the use of hands-on activities to teach and learn mathematics concepts

Experience

- 10 years of teaching math at the high school level in US Public schools
- 10 years of serving as an Instructional Coach for teachers (specifically math teachers) in US public schools
- Led professional development sessions for math teachers on creating inquiry-based lessons, tasks, and authentic assessments aligned to varied DOK levels
- Designed and implemented two-year-long projects with teachers in the implementation of Project-Based Learning in the math classrooms
- Wrote curriculum units for Algebra and Geometry for Atlanta Public Schools
- Acted as a resource person for math workshops for teachers on various topics

Publications/ Presentations

- Authored Allied Primary Mathematics textbooks for classes I to V for Allied Publishers, India, featuring several hands-on activities
- Co-authored Matriculation Mathematics textbooks for classes VI to IX for Tata McGraw-Hill, India.
- Presented Algebraic functions using Geometer's sketchpad at the Georgia Council of Teachers of Mathematics (GCTM) conference, Eatonton, Georgia, October 2008
- Presented Problem-Based Learning at the Georgia Council of Teachers of Mathematics (GCTM) conference, Eatonton, Georgia, October 2010
- Presented Graph Theory and Probabilistic Modeling at the Georgia Council of Teachers of Mathematics (GCTM) conference, Eatonton, Georgia, October 2012
- Presented Three-Act Tasks at the Georgia Council of Teachers of Mathematics (GCTM) conference, Eatonton, Georgia, October 2015
- Co-presented Explorations with Rigid Motions in the plane at the National Council of Teachers of Mathematics conference, San Francisco, April 2016
- Presented Three-Act Tasks at the National Council of Teachers of Mathematics conference, San Antonio, April 2017