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Through multiple years of intensive residential summer institutes and extensive academic year follow-up activity, the Oregon Mathematics Leadership Institute (OMLI) Partnership Project is building school mathematics leadership teams at all levels K-12. The OMLI project is a partnership between Oregon State University, Portland State University, Teachers Development Group, and 10 Oregon school districts, and receives major funding through the National Science Foundation's Math Science Partnership Program and the Title IIB program through the Oregon Department of Education. A distinctive feature of the project is the mathematics instructional model, involving teachers at all levels from kindergarten through grade 12. Six strands of mathematics are emphasized: Numbers and Operations, Algebra and Functions, Data Analysis and Probability, Geometry, Measurement and Change, and Discrete Mathematics. While this mix of elementary, middle, and secondary teachers in the same classes has posed interesting challenges for OMLI mathematics instructors, the results have been quite successful. Descriptions of specific activities used in all six mathematics content strands are presented. (Received September 23, 2005)