



## Developing Essential Understanding: Geometry for Teaching Math in Grades 9-12

By Nathalie Sinclair, David Pimm, Melanie Skelin, Rose Mary Zbiek

National Council of Teachers of Mathematics, U.S. Paperback. Book Condition: new. BRAND NEW, Developing Essential Understanding: Geometry for Teaching Math in Grades 9-12, Nathalie Sinclair, David Pimm, Melanie Skelin, Rose Mary Zbiek, Why does it matter whether we state definitions carefully when we all know what particular geometric figures look like? What does it mean to say that a reflection is a transformation--a function? How does the study of transformations and matrices in high school connect with later work with vector spaces in linear algebra? How much do you know, and how much do you need to know? Helping your students develop a robust understanding of geometry requires that you understand this mathematics deeply. But what does that mean? This book focuses on essential knowledge for teachers about geometry. It is organized around four big ideas, supported by multiple smaller, interconnected ideas--essential understandings. Taking you beyond a simple introduction to geometry, the book will broaden and deepen your mathematical understanding of one of the most challenging topics for students--and teachers. It will help you engage your students, anticipate their perplexities, avoid pitfalls, and dispel misconceptions. You will also learn to develop appropriate tasks, techniques, and tools for assessing students' understanding of the topic. Focus on the...



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