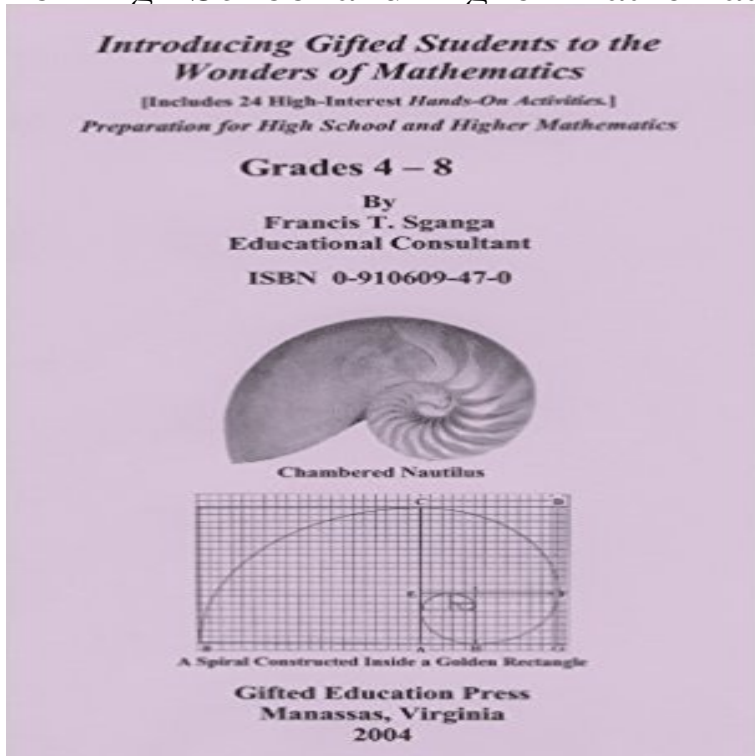


# Introducing Gifted Students to the Wonders of Mathematics: Preparation for High School and Higher Mathematics, Grades 4-8



Suitable for use in Differentiated Mathematics Instruction, Preparation for Mathematics Competitions and Summer Mathematics Enrichment Programs at the Upper Elementary and Middle School Levels. Discussions are based upon the authors extensive experience in teaching mathematics to gifted students. Each chapter is followed by detailed questions (Memory Checks), and answers are found in the Appendix. Includes 24 High-Interest Hands-On Activities. The chapters include challenging problems and explanations in Geometry and Algebra. Detailed Discussions and Problems are included in the Following Mathematical Areas (Examples): 1. MATHEMATICS IN ART AND NATURE-Rectangles, Angles, Golden Rectangle and Ratio. 2. GEOMETRIC CONSTRUCTION OF A GOLDEN RECTANGLE. 3. CONSTRUCTING A SPIRAL INSIDE A GOLDEN RECTANGLE. 4. USING GEOMETRY TO CREATE A SPIRAL. 5. A WORLD-FAMOUS NUMBER NAMED PHI. 6. THE PYTHAGOREAN THEOREM. 7. LEARNING ABOUT PERIMETERS, AREAS AND GEOMETRIC NUMBERS. 8. DERIVING THE FORMULA FOR FINDING THE AREAS OF PARALLELOGRAMS. 9. FINDING THE VOLUME OF A SPHERE PHYSICALLY AND MATHEMATICALLY. 10. RELATING ALGEBRA TO THE REAL WORLD. 11. ADDING AND SUBTRACTING SIGNED

NUMBERS ON A SLIDE RULE.  
12. CONSTRUCTING A  
BINOMIAL SQUARE. 13.  
CONSTRUCTING A  
BINOMIAL CUBE. ABOUT  
THE AUTHOR -- Francis (Frank)  
Sganga received his B.S. and  
M.A. degrees at the University of  
Florida where, as a graduate  
student, he taught for two years.  
After working with the U.S.  
Corps of Engineers for two years,  
he succumbed to an urge to teach,  
and wound up spending six years  
teaching at the high school level.  
After three years, his superiors  
promoted him to the position of  
Mathematics Supervisor. In his  
supervisory role he spent a good  
deal of his time teaching gifted  
students at the middle school  
level, as well as conducting  
in-service workshops for their  
teachers. He never allowed his  
penchant for teaching to lie  
fallow.

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