



GRADE 9 TERM 4 MATHEMATICS SCOPE

PAPER 1 (75 marks)

Number Systems

- Classify numbers as natural, whole, integer, rational, irrational and non real, even HCF and LCM
- Financial Mathematics, simple, compound growth, interest, profit and loss, exchange rate, increase/decrease money in a given percentage
- Distance, speed and time

Algebra and exponents

- Simplify exponents and solve exponential equations
- Remove brackets, factorise and simplify algebraic fractions
- Solve algebraic equations

Number patterns

- Determine next term
- Determine and apply the general term

Graphs

- Interpret weather, distance-time graphs, identify the changes
- Sketch a straight graph using dual intercept or point intercept
- Determine gradient and equation of a given graph

PAPER 2 (75 marks)

Pythagoras Theorem

- Determine missing side when given two sides in a right angled triangle

Geometry of straight lines and 2D shapes (solve for the given variable)

- Angles on a straight line and parallel lines
- angles in a triangle
- Exterior angle in a triangle
- Properties of quadrilaterals (especially parallelograms)
- Congruency and similarity

Transformational Geometry

- Describe and identify translation, reflection and enlargement

Measurement

- Area and perimeter of 2D shapes including composite shapes
- Volume and surface area of 3 D shapes

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Technical Report Wisconsin Research and Development Center for Cognitive Learning,1968 **Teaching Secondary School Mathematics** Alfred S. Posamentier,Jay Stepelman,1995 *Mathematics* Joseph M. Scandura,1971 Booklet inserted Answers to even numbered exercises for Mathematics concrete behavioral foundation Joseph M Scandura Rev ed harper Row 1971 Resources in Education ,1992 **Mathematics Grade 1** New York (N.Y.). Bureau of Curriculum Development,New York (N.Y.). Board of Education,1971 **Teaching Secondary Mathematics** Alfred S. Posamentier,Jay Stepelman,2002 The revision of this book introduces the 2000 NCTM Principles and Standards and explains their use for teaching secondary school mathematics instruction Unlike other books it utilizes 125 enrichment units to provide the staples in preparing to teach mathematics The authors provide step by step techniques on preparing lessons and tests motivating students designing assignments and organizing the classroom This valuable book also provides practical teaching methods for immediate use along with answers to typical questions readers have about teaching math Chapter topics include the mathematics teacher today long range and short range planning teaching more effective lessons the role of problem solving in the mathematics classroom using technology to enhance mathematics instruction authentic assessment and grading strategies enriching mathematics instruction and extracurricular activities in mathematics For mathematics teachers in secondary schools **Proceedings ... Mid-year Meeting** American Petroleum Institute,1940 **Mathematics** ,1984 CAS Review ,1975 **A Decade of Middle School Mathematics Curriculum Implementation** Margaret Renee Meyer,Cynthia W. Langrall,2008 We anticipate that the comprehensive nature of this work will attract readers from multiple audiences that include state and district mathematics supervisors middle grades mathematics teachers and administrators involved in curriculum reform as well as mathematics teacher educators Those about to embark on the review of curriculum materials will appreciate reading about the processes employed by other districts Readers with interests in a particular curriculum program will be able to trace the curriculum specific chapters to gain insights into how the design of the curricula relate to professional development adoption and implementation issues and teachers personal experience using the curriculum materials Individuals who provide professional development at the middle grades level will find chapters that they can use for both general and focused discussions **All Means All** Heather Friziellie,Julie A. Schmidt,Jeanne Spiller,2025-05-14 All students are general education students first a principle the authors champion in this companion guide to their best selling book Yes We Can They offer practical strategies for educators to implement this inclusive philosophy through collaborative teams and shared ownership of student learning The book provides a framework for standards based instruction tailored instruction progress monitoring and targeted interventions ultimately promoting equitable learning opportunities for all students K 12 teachers and leaders can use this book to Enhance the quality of special education learning and instruction through PLC practices Build collaborative communities of professionals across general and special

education Define actionable steps to create equitable learning experiences for all students Align all instruction assessment and grading with mutual learning goals and standards Ensure all special education students achieve the same learning standards as their peers Contents Introduction Part 1 Learning Yes We Can Chapter 1 Reexamining the Past Present and Future Part 2 Living Yes We Can Chapter 2 Aligning Beliefs and Behaviors to Live All Means All Chapter 3 Collaboration by All for All Chapter 4 Standards Focused Planning Instruction Assessment and Grading for All Chapter 5 Tailoring Instruction Chapter 6 Responding When Students Haven t Yet Learned Part 3 Leading Yes We Can Chapter 7 Believe Is a Verb Chapter 8 Leading the Way References and Resources Index **Curriculum Review** ,1984 Resources in Education ,1992

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Education U.S.A. ,1958 **Mathematics** ,1984 *Catholic High School Quarterly Bulletin* ,1960 *School* ,1918
School Bulletin Minneapolis Public Schools. Board of Education,1962

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