Mathematics Content Categories	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
Whole Number Meaning	98	98	98	98	97
Whole Number Operations & Properties	91	94	96	96	93
Common Fractions	65	71	86	91	95
Decimal Fractions	11	22	64	81	90
Common & Decimal Fraction Relations	8	19	52	72	91
Percentages	13	20	48	69	89
Properties of Common & Decimal Fractions	18	26	49	63	74
Number Sets & Concepts	28	28	37	49	64
Other Number Topics	7	9	17	32	60
Number Theory	19	24	49	75	83
Estimation & Number Sense	87	94	96	96	96
Measurement Units	93	95	96	96	95
Perimeter Area & Volume	43	78	87	92	92
Estimation & Measurement Error	41	54	62	70	73
Geometry Basics	63	76	89	95	92
Polygons & Circles	62	66	73	81	84
3-D Geometry	51	53	54	62	67
Geometric Transformations	72	79	80	87	83
Congruence and Similarity	48	77	80	87	86
Proportionality Concepts	7	8	20	35	64
Proportionality Problems	26	33	44	46	55
Slope & Trigonometry	3	3	5	7	10
Patterns, Relations & Functions	76	75	66	69	70
Linear Equations	17	22	26	32	41
Other Equations & Inequalities	18	31	33	45	50
Representing & Interpreting Data	87	87	91	94	94
Probability & Uncertainty	61	63	69	77	68
Sets & Logic	9	8	16	24	26
Other Topics	23	32	29	35	35
Number of Sampled Classrooms	460	556	631	550	438

Topics In Elementary Mathematics

DJ Losen

Topics In Elementary Mathematics:

 Elementary Mathematics Pedagogical Content Knowledge James E. Schwartz,2008 Schwartz Powerful Ideas in Elementary Mathematics Pedagogical Content Knowledge for Teachers 1 e ISBN 0205493750 This book would be a great tool for helping today s future elementary teachers acquire a gut level understanding of mathematics concepts Hester Lewellen Baldwin Wallace College OH The writing in this text is very clear and would easily be understood by the intended audience The real world examples put the various math concepts into a context that is easily understood The vignettes at the beginning of each chapter are interesting and they get the reader to begin thinking about the math concepts that will follow Each of the chapters seem to build on one another and the author often refers back to activities and concepts from previous chapters which is meaningful to the reader because it lets the reader know that the information they are learning builds their conceptual understanding of other mathematical concepts Melany L Rish University of South Carolina Aiken Organized around five key concepts or powerful ideas in mathematics this text presents elementary mathematics content in a concise and nonthreatening manner for teachers Designed to sharpen teachers mathematics pedagogical content knowledge the friendly writing style and vignettes relate math concepts to real life situations so that they may better present the content to their students The five powerful ideas composition decomposition relationships representation and context provide an organizing framework and highlight the interconnections between mathematics topics In addition the text thoroughly integrates discussion of the five NCTM process strands Features Icons highlighting the NCTM process standards appear throughout the book to indicate where the text relates to each of these Practice exercises and activities and their explanations reinforce math concepts presented in the text and provide an opportunity for reflection and practice Concise conversational chapters and opening vignettes present math contents simply enough for even the most math anxious pre service teachers Knowing and Teaching Elementary Mathematics Liping Ma,2020-01-06 The 20th anniversary edition of this groundbreaking and bestselling volume offers powerful examples of the mathematics that can develop the thinking of elementary school children Studies of teachers in the U S often document insufficient subject matter knowledge in mathematics Yet these studies give few examples of the knowledge teachers need to support teaching particularly the kind of teaching demanded by reforms in mathematics education Knowing and Teaching Elementary Mathematics describes the nature and development of the knowledge that elementary teachers need to become accomplished mathematics teachers and suggests why such knowledge seems more common in China than in the United States despite the fact that Chinese teachers have less formal education than their U S counterparts Along with the original studies of U S and Chinese teachers mathematical understanding this 20th anniversary edition includes a new preface and a 2013 journal article by Ma A Critique of the Structure of U S Elementary School Mathematics that describe differences in U S and Chinese elementary mathematics These are augmented by a new series editor s introduction and two key journal articles that frame and

contextualize this seminal work **Introducing Difficult Mathematics Topics in the Elementary Classroom** Francis J. Gardella,2008-11-15 This exciting text for the pre service elementary teacher provides hands on mathematics lessons they can use to introduce mathematical concepts and skills that students find particularly challenging Each chapter is divided into four sections The Activity employs an engaging thought experiment to help the reader visit a classroom to understand how the lesson used to introduce the concept or skill would materialize in the class The Mathematics provides the necessary mathematical background used in the lesson to make the actual teaching learning situation comfortable for both the teachers and the learner The Plan provides the reader with an actual lesson plan to engage the Activity in the classroom setting Putting It All Together pulls the previous sections together with a summary of the chapter as well as further information for making the lesson successful By providing models of what excellent lessons on a given topic look like knowledge of the mathematics involved and a concrete lesson plan structure this much needed resource is the definitive mathematics planning vehicle that every teacher will want before they set foot in their own elementary classroom **Speciacl Topics of Elementary Mathematics** David Eugene Smith,1985 *Topics in Elementary Mathematics* Abe Mizrahi,Michael Sullivan,1971 **Elementary Mathematics** Sol Weiss,1978 **Elementary Mathematical Methods** Diane Thiessen,1989 This book contains 15 chapters 1 Teaching Problem Solving 2 Using Calculators and Computers in Elementary School Mathematics 3 Organizing for Instruction 4 Teaching Numeration of Whole Numbers 5 Teaching Numeration of Common and Decimal Fractions 6 Teaching Addition and Subtraction of Whole Numbers 7 Teaching Multiplication and Division of Whole Numbers 8 Teaching Addition and Subtraction of Common and Decimal Fractions 9 Teaching Multiplication and Division of Common and Decimal Fractions 10 Teaching Measurement 11 Teaching Geometry 12 Teaching Rates Ratios Proportions and Percents 13 Teaching Statistics and Probability 14 Teaching Integers and Their Operations and 15 Teaching Number Patterns and Theory The two appendices include discussions on Calculators and Computers and Mainstreaming Can Individual Needs be Met The chapters in this book reflect the strands taught in the elementary school mathematics curriculum Throughout each chapter are collections of problem sets that divide the chapter into sections A number of these problems are similar to lessons that could be used with elementary school children PK Elementary Mathematical Methods Donald D. Paige,Diane Thiessen,Margaret Wild,1982 Illustration methods of teaching mathematical concepts *The Mathematical Gazette* ,1926 Modern Elementary Mathematics Ladis D. Kovach,1968 A. L. A. Catalog, 1904-1911 Elva Lucile Bascom,1912 Elementary Mathematics Alaska. Department of Education,1986 *University Record* ,1903 **University Record** University of Chicago,1902 *Nature* ,1924 **Home-study Department** University of Chicago. Home-Study Department,1908 **Topics in Mathematics for Elementary School Teachers** ,1964 Catalogue University of Pittsburgh,1929 *Elementary Math Methods* Donald D. Paige,1986 **Announcements** University of Chicago,1917

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