

Unit 1 Study Guide

All problem numbers refer to the Study Plan

Practice Problems

● 1.1 The Concept of a Function

- Recognize the difference between “functions” and “non-functions” in numerical, verbal, graphical, and symbolic formats. (1.6.3b, 1.6.6, 1.6.7b)
- Use tables and graphs to identify functional relationships between variables. (1.6.1, 1.6.5, 1.6.7a)
- Identify independent and dependent variables in applied problems. (1.7.1, 1.7.2)
- Determine the domain and range of a function (including “practical domains”). (1.7.10a, 1.7.12)
- Distinguish between discrete and continuous functions. (1.7.11)
- Use a function model to answer questions related to the situation that the model describes. (1.10.7a, 1.10.7b, 1.10.9, 1.10.10)
- Use function notation to find values of the independent and dependent variables. (1.7.3, 1.7.4, 1.7.5, 1.7.6)

● 1.2 Graph Attributes

- Describe in words what a graph indicates about a given situation, and create graphs from verbal scenarios. (1.13.2, 1.13.3, 1.13.4, 1.13.5)
- Use translations to obtain new graphs from original graphs and be able to describe translations in equations. (1.14.1, 1.14.2d, 1.14.5c, 1.14.6a, 1.14.6d, 1.14.7b)
- Use the Vertical Line Test to determine if a given graph represents a function. (1.13.6a, 1.13.6b, 1.13.6c)
- Use graphs of functions to solve applied problems. (1.14.8, 1.14.10, 1.HCIP2.7)
- Identify intervals on which the graph of a function is increasing, decreasing, and constant. (1.HCIP2.4)
- Identify minimum and maximum points on a graph. (1.HCIP2.6)

● 1.3 Linear Functions

- Determine the average rate of change of a linear function and interpret it as the slope of a linear function. (2.2.1b, 2.2.2, 2.2.5, 2.3.6c-d, 2.3.7)
- Find the slope of the line between two given points. (2.2.4, 2.2.6, 2.3.5a)
- Find intercepts of linear functions. (2.3.4c, 2.3.4d, 2.3.4e, 2.3.6a-b, 2.3.6e, 2.3.8)

● 1.4 Linear Equations

- Solve linear equations numerically and graphically. (2.4.1a, 2.4.1b, 2.7.3, 2.7.4, 2.7.10)
- Use linear equations to solve applied problems. (2.4.6, 2.6.4, 2.6.6, 2.7.16, 2.HCIP2.11)
- Find the equations of lines, in particular, the equations of parallel, perpendicular, vertical, and horizontal lines. (2.4.1c, 2.4.2b, 2.4.2c, 2.4.3a, 2.4.3c, 2.4.4, 2.7.6)

● 1.5 Linear Inequalities

- Solve linear inequalities numerically and graphically. (2.14.2, 2.14.5, 2.14.7, 2.14.8, 2.14.17, 2.14.19, 2.HCIP2.5c, 2.14.22)

Core Plus Math Study Guide Unit One

Cornell University



Core Plus Math Study Guide Unit One:

A 5-Year Study of the First Edition of the Core-Plus Mathematics Curriculum Harold Schoen, Steven W. Ziebarth, Christian R. Hirsch, Allison BrckaLorenz, 2010-06-29 This study evaluates NSF funded Standards based high school math curricula It examines stable implementations in three schools involving students with up to seven years of experience The study monitors achievement beliefs and attitudes over five years relating curriculum implementation to student outcomes and teacher behavior

Topics and Trends in Current Statistics Education Research Gail Burrill, Dani Ben-Zvi, 2018-12-29 This book focuses on international research in statistics education providing a solid understanding of the challenges in learning statistics It presents the teaching and learning of statistics in various contexts including designed settings for young children students in formal schooling tertiary level students and teacher professional development The book describes research on what to teach and platforms for delivering content curriculum strategies on how to teach for deep understanding and includes several chapters on developing conceptual understanding pedagogy and technology teacher knowledge and beliefs and the challenges teachers and students face when they solve statistical problems reasoning and thinking This new research in the field offers critical insights for college instructors classroom teachers curriculum designers researchers in mathematics and statistics education as well as policy makers and newcomers to the field of statistics education Statistics has become one of the key areas of study in the modern world of information and big data The dramatic increase in demand for learning statistics in all disciplines is accompanied by tremendous growth in research in statistics education Increasingly countries are teaching more quantitative reasoning and statistics at lower and lower grade levels within mathematics science and across many content areas Research has revealed the many challenges in helping learners develop statistical literacy reasoning and thinking and new curricula and technology tools show promise in facilitating the achievement of these desired outcomes

ENC Focus ,2001 [Teaching in the Standards-based Classroom](#) ,2001 Virtually every national standards document every state framework and every local set of standards calls for fundamental changes in what and how teachers teach The challenge for teachers is to implement the vision for mathematics and science classrooms called for in the standards This issue describes that vision and suggests ways to use the standards mandated in your school to improve your practice to help you teach in your standards based classroom

EC Study Guide to Environment-related Courses Institute for European Environmental Policy, Commission of the European Communities. Directorate-General Environment, Nuclear Safety and Civil Protection, 1993

Resources in Education ,1999-10

Lessons Learned from Research Judith T. Sowder, Bonnie P. Schappelle, National Council of Teachers of Mathematics, 2002 An excellent eye opener that brings research to K 12 mathematics teachers in an easy to use readable format Features 29 research articles from the Journal for Research in Mathematics Education rewritten specifically to reach the teacher audience

Resources in Education ,1996 [MAA Notes](#) ,1983 **Math 2, Units 0-12** C P M Educational

Program,2002 **A Fresh Start for Collegiate Mathematics** Nancy Baxter Hastings,Florence S. Gordon,Sheldon P. Gordon,Jack Narayan,2006 This volume is an outcome of the NSF funded conference Rethinking the Preparation for Calculus which took place in Washington DC in October 2001 P vi **Core-Plus Mathematics Course 1, Teacher** Glencoe,2007-08 Teacher Classroom Resources Include Unit Resource MastersStudent Study Guide Teacher EditionScope SequenceImplementation Guide Teaching Today's Mathematics in the Middle Grades Art Johnson,Kit Norris,2006 Teaching Today s Mathematics in the Middle Grades provides current and future middle school teachers with the mathematics content essential concepts methodology activities and resources to both learn and teach mathematics in grades 5 to 8 The authors focus exclusively on the middle school learner and the middle school mathematics curriculum Although each chapter discusses foundational mathematics concepts from earlier grades and previews topics that will follow the middle grades the emphasis is on the middle school This selective focus allows for proper development of critical topics in the middle school such as proportionality algebraic thinking and the integral role of manipulatives Assessment practices and problem solving are also emphasized from the viewpoint of effective practices for middle school students Unique Features React and Reflect features prompt classroom discussions by asking the reader to think independently regarding a statement issue or concern Try This features ask the reader to solve a problem first or extend the current discussion by working on an extension of a problem By completing the problem first teachers are putting themselves in the place of their students helping the teacher discover first hand common misconceptions Numerous exercises and activities appear at the end of each chapter to reinforce student understanding of various topics and ensure mastery of the mathematics content The NCTM Principles and Standards are emphasized throughout the book beginning with a discussion in Chapter 1 Each of the content chapters 6 11 opens with the relevant NCTM content standards for that chapter In addition marginal icons highlight areas within the text in which the NCTM process standards are discussed Reviewers rave From the content organization and approach it is evident that the authors have years of teaching experience This gives the text authority Marina Krause California State University Long BeachThe authors do an excellent job of presenting in sequential order essential concepts methodology activities and technological resources essential to assist the beginning math teacher in preparing to teach in the middle school program Gerald Jarmon North Carolina Central University **Christian Home Educators' Curriculum Manual** Cathy Duffy,1997-11 **Peterson's Guide to Two-Year Colleges, 1996** Peterson's Guides, Inc,1995-08-26 A Comprehensive guide to the more than 1 600 junior and community colleges in the U S and Canada as well as general information about application older students financial aid and other topics Guide to Technical, Trade, and Business Schools Mary Goodhue Lynch,2001-10 **Heart & Lung** ,1986 **Peterson's Guide to Two-Year Colleges, 1995** Peterson's Guides,Peterson's Guides Staff,1994-08 Here is complete accurate information on more than 1 400 U S two year colleges schools that grant the associate degree as their highest degree Backed by Peterson s more than 25 years of helping

students find the right college this guide presents concise statistical data plus in depth descriptions of each college
Glencoe Mathematics William Collins,1999 Cornell University Courses of Study Cornell University,1986

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