

Quick Reference Guide to Reviewing

Algebra Connections California Teacher Edition

Thanks for taking the time to review the CPM Algebra 1 program, *Algebra Connections*. This guide will point you to all of the sections and features in the teacher resources

Tabs	The binder tabs indicate where major categories of information, the chapters, and the assessment resources are located.
	Resources Found in the Front Five Tabs
Table of Contents	First page lists all of the general course teacher resources in the tabbed sections prior to Chapter One.
CA Content Standards	List of the standards, where they are taught (by lesson), and number of days devoted to each standard.
Standards Correlations	Page numbers and problems where each standard is taught/practiced. (Page numbers are keyed to the student edition.)
Synthesis of research	The details of the research base that promotes long-term learning: problem-based lessons, student study teams, and spaced practice.
Effectiveness	STAR data for CA high schools 1998-2006 comparing CPM schools to the state average on the SAT9 and CST tests. (CST includes 8 th grade algebra.)
Technology	How to use a graphing calculator; where and how to get the technology-based lessons from the Internet.
Study teams	Suggestions for how to develop effective student study teams.
Chapter closure	How to use the options for chapter closure.
Universal access	A Framework-based discussion of ideas to support students of varied backgrounds and needs, with specific literacy suggestions. The student text reading level is 7.4 (reading ease 64.0) on the Flesh-Kincaid scale.
Timeline	Suggested map to set and maintain a pace to complete the course.
Materials list	Everything needed for the course on a regular basis and lesson-specific items.
Index	The index for both the student and teacher versions.
Glossary	Illustrated glossary.
	Features of a Typical Chapter (pages reference Chapter 4)
Guide (273)	One page table with number of days for each lesson, total days in the chapter, lesson objective, materials needed, homework problems to assign.
Chapter overview 274	Discusses how the ideas in the chapter will develop.
Future study 276	The “Where is this going?” notes explain how the topic(s) of the chapter lead to later topics and where they will occur in subsequent chapters.
Chapter closure: 344-51	Five activities, including a graphic organizer, and a chapter review self-test with answers and references for more help and practice.
Vocabulary 366-68	Concept map vocabulary cards

	Features of a Typical Lesson (Chapter 4, pages 277-281)
Objective	The mathematical purpose and expected outcome of the lesson.
Length	Number of days and length of each class period.
Core problems	The problem(s) that must be completed to meet the objective(s). This information allows teachers to slow the pace of a class by reducing the number of problems to do without adjusting the chapter daily pacing guide.
Ways of thinking	The course focuses five ways of thinking about mathematics and lists the one(s) that are most appropriate for the lesson.
Materials	What the teacher will need, how many, and how to prepare them.
Lesson overview	What is expected from the lesson.
Suggested lesson activity	Detailed notes about the authors' intent for the problems and how the lesson should unfold. Information about pacing, when to intervene, issues and difficulties that might arise and what to do to address them, questions to use with the student study teams, points of emphasis, and explanations for how to do involved problems and activities.
Closure	When and how to bring the lesson to conclusion.
Team roles	Suggestions for using the structured study team roles, including prompts for the students.
Homework	A list of the homework problems.
Learning log 290	Prompts for periodic entries in students' notes to summarize ideas.
Math Notes 318, 334	Formal statements of ideas with examples after ideas are developed.
	Chapter Closure
344-51	Five activities, including a graphic organizer, and a chapter review self-test with answers and references for more help and practice.
366-68	Concept map vocabulary cards
	Additional California Topics
	Four lessons to augment the text and where to insert them in the course. Topics are: linear and non-linear graphs and tables, justifications with algebraic properties, representing data with graphs and rules (direct and inverse variation), and dividing polynomials.
	Assessment Resources
Handbook	Multiple forms of assessment and how to use them: individual tests, team tests, participation quizzes, student presentations, class observations, and portfolios with suggested devices for evaluation.
Course pre-test	A multiple choice course pre-test that contains all of the 7 th grade California content standards.
Chapter assessment plans	An outline of when to use various assessment devices, including how to construct tests and what to include on them.
Test bank resources	Pre-made tests and quizzes along with dozens of items to use to construct additional tests and quizzes.
Answers	Answers to each homework set laid out so that teachers may provide students with the answers on paper or an overhead transparency.
	CD resources
	Electronic copies (Word and PDF) of the printed assessment resources, answer masters, pre-test, student resource pages, and classroom videos.