

ALGEBRA 2

Texas Edition



About *Algebra 2*

The content of *Algebra 2* is organized around families of functions, including linear, quadratic, exponential, logarithmic, radical, and rational functions. As you study each family of functions, you will learn to represent them in multiple ways—as verbal descriptions, equations, tables, and graphs. You will also learn to model real-world situations using functions in order to solve problems arising from those situations.

Algebra 2 provides thorough coverage of the Texas Essential Knowledge and Skills (TEKS) for Algebra 2. TEKS references appear at the beginning of each lesson and activity, and a full-page “Mixed Review for TEKS” appears twice each chapter. In addition, *Algebra 2* helps you prepare for the Grade 11 Texas Assessment of Knowledge and Skills (TAKS). Each lesson includes exercises called “TAKS Reasoning” and “TAKS Practice,” and each chapter concludes with four pages of “TAKS Preparation” and “TAKS Practice.” Technology support for both learning algebra and preparing for TAKS is available at classzone.com.

ALGEBRA 2

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Complete listing of
Algebra 2 TEKS
Grade 11 TAKS objectives
on pages TX1–TX5
at the back of the book

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Using Your Textbook

Your textbook contains many resources that you can use for reference when you are studying or doing your homework.

IN EVERY CHAPTER








BIG IDEAS The second page of every chapter includes a list of important ideas developed in the chapter. More information about these ideas appears in the Chapter Summary page at the end of the chapter.

KEY CONCEPTS The Key Concept notebook displays in every lesson present the main ideas of the lesson. You may want to copy these ideas into your notes.

VOCABULARY New words and review words are listed in a column on the first page of every lesson. Vocabulary terms appear highlighted and in bold print within the lesson. A list of vocabulary appears in the Chapter Review at the end of each chapter.

MIXED REVIEW FOR TAKS Every lesson ends with Mixed Review for TAKS exercises. These exercises help you review TAKS Objectives that will be covered on the Grade 11 Exit Level TAKS. Review notes beside the exercises point you to the places in the book where the TAKS Objectives are reviewed.

STUDENT RESOURCES AT THE BACK OF THE BOOK

-  **SKILLS REVIEW HANDBOOK** Use the Skills Review Handbook topics on pages 975–1009 to review material learned in previous courses.
-  **EXTRA PRACTICE** Use the Extra Practice on pages 1010–1023 for more exercises or to review a chapter before a test.
-  **TABLES** Refer to the tables on pages 1024–1034 for information about mathematical symbols, measures, formulas, and properties.
-  **GLOSSARY** Use the English-Spanish Glossary on pages 1035–1084 to see definitions in English and Spanish, as well as examples illustrating vocabulary.
-  **INDEX** Look up items in the alphabetical Index on pages 1085–1104 to find where a particular math topic is covered in the book.
-  **WORKED-OUT SOLUTIONS** In each lesson, exercises identified by a red circle have complete worked-out solutions starting on page WS1. These provide a model for what a full solution should include.
-  **SELECTED ANSWERS** Use the Selected Answers starting on page SA1 to check your work.