



**Bluebonnet
Learning™**

Secondary Mathematics

EDITION 1

Algebra II

Materials List

Acknowledgment

Thank you to all the Texas educators and stakeholders who supported the review process and provided feedback. These materials are the result of the work of numerous individuals, and we are deeply grateful for their contributions.

Notice

These learning resources have been built for Texas students, aligned to the Texas Essential Knowledge and Skills, and are made available pursuant to Chapter 31, Subchapter B-1 of the Texas Education Code.

If you have further product questions or to report an error, please email openeducationresources@tea.texas.gov.

ALGEBRA II MATERIALS

Key

- Materials required to implement the lesson as written
- ▲ Optional materials, such as those associated with differentiation strategies

The Course Materials list provides an overall view of the materials required for each lesson in the course. Consult the specific Lesson Overview for additional details.

	Algebra Tiles	Blank Paper	Calculators	Colored Paper	Colored Pencils	Colored Water	Compasses	Containers	Cups	Dot Sticker	Fraction Strips	Glue	Graph Paper	Lesson-Embedded Resources	Marbles	Markers	Masking Tape	Patty Paper	Poster Paper	Problem-Solving Model Graphic Organizer	Rulers	Scissors	Straightedges	Tape	Technology	Uncooked Pasta
MODULE 1 Extending Linear Relationships																										
TOPIC 1 Absolute Value Functions and Equations																										
Introduction Lesson														●						●						
1 Defining Absolute Value Functions				▲												●	●			●					●	
2 Transformations of Absolute Value Functions																									●	
3 Absolute Value Equations and Inequalities										▲									▲	●					▲	
TOPIC 2 Applications of Linear Relationships																										
1 Solving Systems of Equations				▲																●					●	
2 Optimization				▲																						
3 Solving Systems with Matrices																									●	
4 Inverses of Linear Functions																			●						●	

ALGEBRA II MATERIALS

Key

- Materials required to implement the lesson as written
- ▲ Optional materials, such as those associated with differentiation strategies

	Algebra Tiles	Blank Paper	Calculators	Colored Paper	Colored Pencils	Colored Water	Compasses	Containers	Cups	Dot Sticker	Fraction Strips	Glue	Graph Paper	Lesson-Embedded Resources	Marbles	Markers	Masking Tape	Patty Paper	Poster Paper	Problem-Solving Model Graphic Organizer	Rulers	Scissors	Straightedges	Tape	Technology	Uncooked Pasta
MODULE 3 Analyzing Structure																										
TOPIC 1 Composing and Decomposing Functions																										
1 Modeling with Functions		●																		●						●
2 Transforming Function Shapes																										●
3 Exploring Cubic Functions											▲		▲							●		▲		▲		●
4 Decomposing Cubic Functions																										●
TOPIC 2 Attributes of Cubic Functions																										
1 Symmetric Functions																										●
2 Transformations of Cubic Functions														●												
3 Key Attributes of Cubic Functions																				●						▲
TOPIC 3 Relating Factors and Zeros																										
1 Adding, Subtracting, and Multiplying Polynomials		▲																		●						
2 Factoring Polynomials to Identify Zeros																										●
3 Polynomial Division																										
4 Rational Root Theorem																										

ALGEBRA II MATERIALS

Key

- Materials required to implement the lesson as written
- ▲ Optional materials, such as those associated with differentiation strategies

	Algebra Tiles	Blank Paper	Calculators	Colored Paper	Colored Pencils	Colored Water	Compasses	Containers	Cups	Dot Sticker	Fraction Strips	Glue	Graph Paper	Lesson-Embedded Resources	Marbles	Markers	Masking Tape	Patty Paper	Poster Paper	Problem-Solving Model Graphic Organizer	Rulers	Scissors	Straightedges	Tape	Technology	Uncooked Pasta
MODULE 5 Exploring Exponentials and Logarithmics																										
TOPIC 1 Exponential and Logarithmic Functions																										
1 Comparing Linear and Exponential Functions																				●	●					●
2 Properties of Exponential Graphs											●		●									●				●
3 Transformations of Exponential Functions																▲										
4 Modeling with Exponential Functions				▲																●						●
5 Logarithmic Functions											●							▲			●		●			●
6 Transformations of Logarithmic Functions																										
TOPIC 2 Exponential and Logarithmic Equations																										
1 Logarithmic Expressions		▲																		▲						
2 Solving Exponential Equations			●																							
3 Solving Logarithmic Equations																					●					●
4 Applications of Exponential and Logarithmic Equations																					●					●
5 Modeling with Linear, Quadratic, and Exponential Functions																				▲						●

ISBN: 978-1-970198-48-5

© 2026 Texas Education Agency. Portions of this work are adapted,
with permission, from the originals created by and copyright
© 2021 Carnegie Learning, Inc.

This work is licensed under a Creative Commons Attribution-Non-Commercial-
4.0 International License.

You are free:

to Share—to copy, distribute, and transmit the work

to Remix—to adapt the work

Under the following conditions:

Attribution—You must attribute any adaptations of the work in the following manner:

This work is based on original works of the Texas Education Agency and
Carnegie Learning, Inc. This work is made available under a Creative
Commons Attribution-Non-Commercial-4.0 International License. This does
not in any way imply endorsement by those authors of this work.

NonCommercial—You may not use this work for commercial purposes.

With the understanding that:

For any reuse or distribution, you must make clear to others the license terms of this
work. The best way to do this is with a link to this web page:

<https://creativecommons.org/licenses/by-nc/4.0/>

Trademarks and trade names are shown in this book strictly for illustrative
and educational purposes and are the property of their respective owners.
References herein should not be regarded as affecting the validity of said
trademarks and trade names.

Printed in the USA