

Program Overview

Grades 9–12





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Teacher Resources

Print Resources

Teacher Edition, 2-Volume

These spiral-bound Teacher Editions provide the essentials to plan and implement classroom instruction focused on Oklahoma Academic Standards for Mathematics.



Digital Resources

Teachers have access to an easy-to-use portal for planning, teaching, and validation of learning. The Digital Teacher Center experience includes:

- Teacher Edition eBook
- Language Development Handbook, Teacher Edition
- Interactive Lesson Presentations
- Program Quick Start Course
- Expert Insight Videos
- Auto-Scored, Customizable Online Assessments
- Differentiated Resources
- Dynamic Digital Practice

- Auto-scored, Customizable
 Interactive Practice
- Spiral Review
- Web Sketchpad[®]
- eToolkit (Virtual Manipulative Suite)
- Personal Tutor Lesson Support
- Practice and Assessment Word documents
- ALEKS[®] *
- Teacher and Administrator Reporting

Digital Integration

The McGraw Hill Open Learning Platform currently integrates with the following Federated Standards: SAML 2.0 IDP, LTI 1.0, and Clever. Integration is possible with most learning management systems that support these standards, including but not limited to:



- Canvas
- Schoology
- Google Classroom
- Blackboard

Student Resources

Print Resources

Student Edition, Hardcover

These hardcover Student Editions offer students the opportunity to engage in learning through the use of notetaking, problem-solving, discourse, and reflection.



McGraw Hill ACT[®] & SAT Math Practice Books

Constructed to provide students practice leading up to either the ACT[®] or the SAT[®] tests, these practice books cover the concepts and question types found on each test.



Digital Resources

Students have access to a robust set of engaging digital tools and interactive learning aids in their Digital Student Center, including:

- Interactive Student Edition
- Student Edition eBook
- Language Development Handbook, Student Edition
- Dynamic Digital Practice
- Interactive Digital Practice

- Web Sketchpad[®]
- eToolkit (Virtual Manipulative Suite)
- eGlossary
- Multilingual eGlossary
- Personal Tutor Video Lesson Support
- ALEKS® *



Designed to Meet Oklahoma Mathematics Standards

Oklahoma Reveal Math is designed to ensure teachers have the tools to deliver the high-quality instruction needed for student success in math class and beyond.

1. Lesson Goal and Contents

The focused goal of the lesson and the segments within are outlined. Note the icons recommending class, pair, and individual student activities.

2. Differentiated Resources

At-a-glance resources for lesson differentiation make planning easy.

3. Pacing

Lesson pacing for each activity is represented for 45- or 90- minute periods.

4. Oklahoma Academic Standards for Mathematics

Each Lesson Opener specifies the Domain, Major Cluster(s), Content, and Standards for Mathematical Practice.

5. Balanced Structure

The tasks, problems, and exercises reflect a balance of the three pillars of rigor: Conceptual Understanding, Procedural Skill & Fluency, and Application.

6. Mathematical Background

Each lesson includes a point-of-use explanation of the mathematical context for teachers.



Learning Progression

Coherence

ertical Align

Students understood the connect ships, lines, and linear equations PA.A.2.1

Students create linear equations and analyze data to make prediction. A1.A.4.1, A1.A.4.2, A1.A.4.3, A1.A.4.4, A1.A.4.5, A1.D.1.2, A1.D.1.3, A1.F.1.3, A1.F.3.1

Oklahoma Reveal Math ensures learning progression of mathematical content across all grades and within each grade from kindergarten to Algebra 2. Module-level and lesson-level progressions help strengthen each student's learning journey.

Module-Level Learning Progression

helps teachers understand previously learned concepts and skills, the focus of the upcoming module, and follow-up concepts and skills.

Creating Linear Equations

Module Goals

· Students create linear equations in slope-intercept, point-slope, and Students screak and a second standard forms. Students use scatter plots to make and evaluate predictions, and use hest-fit lines and correlation coefficients to determine how well linear functions fit sets of data. • Students find inverses of functions.

Ferrie

Lessons	Oklahoma Standards 45-min classes 90-min classe	
Oklanoma Academic Standards for Mathematical Actions and Processes: Throughout module		
functions, graphs, tables, and real-world situations.	EXPLORE LEARN EXAMPLE & PRACTICE	7
A1.F.3.1 Identify and generate equivalent representations of linear		1
mathematical models.	1 CONCEPTUAL UNDERSTANDING 2 FLUENCY 3 APPLICATION	
A1.F.1.3 Write linear functions, using function notation, to represent		
graphing technology.	mathematical knowledge as they go through the Examples and Practice.	
correlation coefficient to assess the reliability of those predictions using	the concent they practice procedural skills and fluency and apply their	
A1.D.1.3 Make predictions based upon the linear regression and use the	from the Evolore to Learn sections within a lesson. Once they understand	
ALD.1.2 Collect data and analyze scatter plots for patterns, intearity, and outliers	To help students meet standards, they need to illustrate their ability to use t	ine
representations and written scenarios.	The Three Pillars of Rigor	
A1.A.4.5 Analyze and interpret associations between graphical	ingo:	
standard forms. Convert between these forms.	Rigor	
A1.A.4.4 Express linear equations in slope-intercept, point-slope, and		
slope and one point, two points, x- and y-intercepts, or a set of data points.		
A1.A.4.3 Write the equation of the line given its slope and y-intercept,	A1.F.3 (Algebra 1, Algebra 2)	
are parallel, perpendicular horizontal, and vertical	Students will use their knowledge of linear equations to build linear functions to madel linear solutionships	
and interpret slope and the x- and y-intercepts of a line.	Next	
sets (e.g., graphs, equations, two points, a set of data points) to calculate		
A1.A.4.1 Analyze, use and apply mathematical models and other data		
Oklahoma Academic Standards for Mathematics:	A1.F.1.3, A1.F.3.1	
Domains: Algebraic Reasoning & Algebra, Functions, Data & Probability	A1.A.4.1, A1.A.4.2, A1.A.4.3, A1.A.4.4, A1.A.4.5, A1.D.1.2, A1.D.1.3,	
	Students create linear eduations and analyze data to make predictions.	

5-1 Writing Equations in Slope-Intercept Form A1A.41, A1A.43, A1A.44, A1A.45, A1F.31 5-2 Writing Equations in Standard and Point Slope Forms A1A.41, A1A.42, A1A.43, A1A.44, A1A.45, A1F.31 5-4 Mriting Equations in Standard and Point Slope Forms A1A.41, A1A.42, A1A.43, A1A.44, A1A.45, A1F.31 0.5 0.5 Put It All Together: Lessons 5-1 throug 5-3 Scatter Plots and Lines of Fit 5-4 Linear Regression 5-5 Inverses of Linear Functions A1A.41, A1A.4.3, A1A.4.5, A1D.12 A1A.41, A1D.12, A1D.13 A1F.13 12 6.0 Coherence e 5 • Cre ne 277 Vertical Alignment Students understood the connections between proportional relation-

ships, lines, and linear equations. PA.A.2.1

Students create linear equations and analyze data to make prodictions. A1.A.4.1, A1.A.4.2, A1.A.4.3, A1.A.4.4, A1.A.4.5, A1.D.1.2, A1.D.1.3, A1.F.1.3, A1.F.3.1

Students will use their knowledge of linear equations to build linear functions to model linear relationships. A1.F.3 (Algebra 1, Algebra 2)



Lesson-Level Learning Progression

guidance provides a more granular analysis of the learning progression from lesson to lesson within the module.

Program Table of Contents

ALGEBRA 1

Module 1 Expressions

Lesson 1: Numerical Expressions Lesson 2: Algebraic Expressions

Lesson 3: Properties of Real Numbers

Expand 1–3: Operations with Rational Numbers

- Lesson 4: Distributive Property
- Lesson 5: Expressions Involving Absolute Value
- Lesson 6: Descriptive Modeling and Accuracy

Module 2 Equations in One Variable

- Lesson 1: Writing and Interpreting Equations
- Lesson 2: Solving One-Step Equations
- Lesson 3: Solving Multi-Step Equations
- Lesson 4: Solving Equations with the Variable on Each Side
- Lesson 5: Solving Equations Involving Absolute Value
- Lesson 6: Solving Proportions
- Lesson 7: Using Formulas

Module 3 Relations and Functions

Lesson 1: Representing Relations

- Lesson 2: Functions
- Lesson 3: Linearity and Continuity of Graphs
- Lesson 4: Intercepts of Graphs
- Lesson 5: Shapes of Graphs
- Lesson 6: Sketching Graphs and Comparing Functions

Module 4 Linear and Nonlinear Functions

Lesson 1: Graphing Linear Functions

- Lesson 2: Rate of Change and Slope
- Lesson 3: Slope-Intercept Form
- Expand 4–3: Linear Growth Patterns
- Lesson 4: Transformations of Linear Functions
- Lesson 5: Piecewise and Step Functions
- Lesson 6: Absolute Value Functions

Module 5 Creating Linear Equations

 Lesson 1: Writing Equations in Slope-Intercept Form
 Lesson 2: Writing Equations in Standard and Point-Slope Forms
 Lesson 3: Scatter Plots and Lines of Fit

- Lesson 4: Linear Regression
- Lesson 5: Inverses of Linear Functions

Module 6 Linear Inequalities

Lesson 1: Solving One-Step Inequalities
Lesson 2: Solving Multi-Step Inequalities
Lesson 3: Solving Compound Inequalities
Lesson 4: Solving Absolute Value Inequalities
Lesson 5: Graphing Inequalities in Two Variables

Module 7 Systems of Linear Equations and Inequalities

Lesson 1: Graphing Systems of Equations

- Lesson 2: Substitution
- Lesson 3: Elimination Using Addition and Subtraction
- Lesson 4: Elimination Using Multiplication
- Lesson 5: Systems of Inequalities

Module 8 Exponents and Roots

- Lesson 1: Multiplication Properties of Exponents
- **Lesson 2:** Division Properties of Exponents
- Lesson 3: Negative Exponents
- Lesson 4: Rational Exponents
- Lesson 5: Simplifying Radical Expressions
- Lesson 6: Operations with Radical Expressions
- **Expand 8–6:** Sums and Products of Rational and Irrational Numbers
- Lesson 7: Exponential Equations

Module 9 Exponential Functions

Lesson 1: Exponential Functions

- Lesson 2: Transformations of Exponential Functions
- Lesson 3: Writing Exponential Functions
- Lesson 4: Transforming Exponential Expressions
- Lesson 5: Geometric Sequences
- Lesson 6: Recursive Formulas

Module 10 Polynomials

Lesson 1: Adding and Subtracting Polynomials
Lesson 2: Multiplying Polynomials by Monomials
Lesson 3: Multiplying Polynomials
Lesson 4: Special Products
Lesson 5: Using the Distributive Property
Expand 10–5: Proving the Elimination Method
Lesson 6: Factoring Quadratic Trinomials
Lesson 7: Factoring Special Products

Module 11 Quadratic Functions

- Lesson 1: Graphing Quadratic Functions
- **Lesson 2:** Transformations of Quadratic Functions
- Lesson 3: Solving Quadratic Equations by Graphing
- Lesson 4: Solving Quadratic Equations by Factoring
- Lesson 5: Solving Quadratic Equations by Completing the Square
- Lesson 6: Solving Quadratic Equations by Using the Quadratic Formula
- Lesson 7: Solving Systems of Linear and Quadratic Equations
- Lesson 8: Modeling and Curve Fitting
- Expand 11–8: Exponential Growth Patterns
- Lesson 9: Combining Functions

Module 12 Statistics

Lesson 1: Measures of Center
Lesson 2: Representing Data
Lesson 3: Using Data
Lesson 4: Measures of Spread
Lesson 5: Distributions of Data
Lesson 6: Comparing Sets of Data
Lesson 7: Summarizing Categorical Data

Module 13 Probability

Lesson 1: Sample Spaces
Lesson 2: Probability and Counting
Lesson 3: Geometric Probability
Expand 13–3: Making Fair Decisions
Lesson 4: Probability with Permutations and Combinations
Lesson 5: Probability and the Multiplication Rule
Lesson 6: Probability and the Addition Rule
Lesson 7: Conditional Probability

Lesson 8: Two-Way Frequency Tables

Program Table of Contents

GEOMETRY

Module 1 **Tools of Geometry** Lesson 1: The Geometric System Lesson 2: Points, Lines, and Planes Lesson 3: Line Segments Lesson 4: Distance Lesson 5: Locating Points on a Number Line Lesson 6: Locating Points on a Coordinate Plane Lesson 7: Midpoints and Bisectors Module 2 Angles and Geometric Figures Lesson 1: Angles and Congruence Lesson 2: Angle Relationship Lesson 3: Two-Dimensional Figures Lesson 4: Transformations in the Plane Lesson 5: Three-Dimensional Figures Lesson 6: Two-Dimensional Representations of Three-Dimensional Figures Lesson 7: Precision and Accuracy Lesson 8: Representing Measurements Module 3 Logical Arguments and Line Relationship Lesson 1: Conjectures and Counterexamples Lesson 2: Statements, Conditionals, and Biconditionals Lesson 3: Deductive Reasoning Lesson 4: Writing Proofs Lesson 5: Proving Segment Relationship Lesson 6: Proving Angle Relationship Lesson 7: Parallel Lines and Transversals Lesson 8: Slope and Equations of Lines Lesson 9: Proving Lines Parallel Lesson 10: Perpendiculars and Distance

Module 4 Transformations and Symmetry

Lesson 1: Reflections Lesson 2: Translations Lesson 3: Rotations Lesson 4: Compositions of Transformations Lesson 5: Tessellations Lesson 6: Symmetry

Module 5 Triangles and Congruence

Lesson 1: Angles of Triangles
Lesson 2: Congruent Triangles
Lesson 3: Proving Triangles Congruent: SSS, SAS
Lesson 4: Proving Triangles Congruent: ASA, AAS
Lesson 5: Proving Right Triangles Congruent
Lesson 6: Isosceles and Equilateral Triangles
Lesson 7: Triangles and Coordinate Proof

Module 6 Relationship in Triangles

Lesson 1: Perpendicular Bisectors
Lesson 2: Angle Bisectors
Lesson 3: Medians and Altitudes of Triangles
Lesson 4: Inequalities in One Triangle
Lesson 5: Indirect Proof
Lesson 6: The Triangle Inequality
Lesson 7: Inequalities in Two Triangles

Module 7 Quadrilaterals

Lesson 1: Angles of Polygons Lesson 2: Parallelograms Lesson 3: Tests for Parallelograms Lesson 4: Rectangles Lesson 5: Rhombi and Squares Lesson 6: Trapezoids and Kites

Module 8 Similarity

Lesson 1: Dilations

Lesson 2: Similar Polygons

Lesson 3: Similar Triangles: AA Similarity

Lesson 4: Similar Triangles: SSS and SAS Similarity

Expand 8-4: Proving the Slope Criteria

Lesson 5: Triangle Proportionality

Lesson 6: Parts of Similar Triangles

Module 9 Right Triangles and Trigonometry

Lesson 1: Geometric Mean

Lesson 2: Pythagorean Theorem and its Converse

Lesson 3: Coordinates in Space

Lesson 4: Special Right Triangles

Lesson 5: Trigonometry

Lesson 6: Applying Trigonometry

Lesson 7: The Law of Sines

Lesson 8: The Law of Cosines

Module 10 Circles

Lesson 1: Circles and Circumference

Lesson 2: Measuring Angles and Arcs

Lesson 3: Arcs and Chords

Lesson 4: Inscribed Angles

Lesson 5: Tangents

Lesson 6: Tangents, Secants, and Angle Measures

Lesson 7: Equations of Circles

Lesson 8: Equations of Parabolas

Module 11 Measurement

Lesson 1: Areas of Quadrilaterals

Lesson 2: Areas of Regular Polygons

Lesson 3: Areas of Circles and Sectors

Lesson 4: Surface Area

Lesson 5: Cross Sections and Solids of Revolution

Lesson 6: Volumes of Prisms and Pyramids

Lesson 7: Volumes of Cylinders, Cones, and Spheres

Lesson 8: Applying Similarity to Solid Figures

Lesson 9: Density

Program Table of Contents

ALGEBRA 2

Module 1 Relations and Functions Lesson 1: Functions and Continuity Lesson 2: Linearity, Intercepts, and Symmetry Lesson 3: Extrema and End Behavior Lesson 4: Sketching Graphs and **Comparing Functions** Lesson 5: Graphing Linear Functions and Inequalities Lesson 6: Special Functions Lesson 7: Transformations of Functions Module 2 Linear Equations, Inequalities and Systems Lesson 1: Solving Linear Equations and Inequalities Lesson 2: Solving Absolute Value Equations and Inequalities Lesson 3: Equations of Linear Functions Lesson 4: Solving Systems of Equations Graphically Lesson 5: Solving Systems of Equations Algebraically Lesson 6: Solving Systems of Inequalities Lesson 7: Optimization with Linear Programming Lesson 8: Systems of Equations in Three Variables Lesson 9: Solving Absolute Value Equations and Inequalities by Graphing Lesson 10: Arithmetic Sequences Extend 2–10: Arithmetic Sequences and Series Lesson 11: Correlation and Causation Module 3 Quadratic Functions Lesson 1: Graphing Quadratic Functions Lesson 2: Solving Quadratic Equations by Graphing Lesson 3: Complex Numbers

- Extend 3–3: Imaginary Numbers Raised to a Power
- Lesson 4: Solving Quadratic Equations by Factoring
- Lesson 5: Solving Quadratic Equations by Completing the Square
- Lesson 6: Using the Quadratic Formula and the Discriminant
- Lesson 7: Quadratic Inequalities
- Lesson 8: Solving Linear-Nonlinear Systems

Module 4 Polynomials and Polynomial Functions

Lesson 1: Polynomial Functions
Lesson 2: Analyzing Graphs of Polynomial Functions
Lesson 3: Operations with Polynomials
Lesson 4: Dividing Polynomials
Lesson 5: Powers of Binomials

Module 5 Polynomial Equations

Lesson 1: Solving Polynomial Equations by Graphing
Lesson 2: Solving Polynomial Equations Algebraically
Lesson 3: Proving Polynomial Identities
Lesson 4: The Remainder and Factor Theorems
Lesson 5: Roots and Zeros

Module 6 Inverses and Radical Functions

Lesson 1: Operations with Functions
Lesson 2: Inverse Relations and Functions
Lesson 3: nth Roots and Rational Exponents
Lesson 4: Graphing Radical Functions
Lesson 5: Operations with Radical Expressions
Lesson 6: Solving Radical Equations

Module 7 Exponential Functions

Lesson 1: Graphing Exponential Functions Lesson 2: Solving Exponential Equations and Inequalities

Lesson 3: Special Exponential Functions Lesson 4: Geometric Sequences and Series Expand 7–4: Sum of a Finite Geometric Series Lesson 5: Modeling Data

Module 8 Logarithmic Functions

Lesson 1: Logarithms and Logarithmic Functions Lesson 2: Properties of Logarithms Lesson 3: Common Logarithms Lesson 4: Natural Logarithms

Lesson 5: Using Exponential and Logarithmic Functions

Module 9 Rational Functions

- Lesson 1: Multiplying and Dividing Rational Expressions
- Lesson 2: Adding and Subtracting Rational Expressions
- Lesson 3: Graphing Reciprocal Functions
- Lesson 4: Graphing Rational Functions
- Lesson 5: Variation
- Lesson 6: Solving Rational Equations and Inequalities

Module 10 Inferential Statistics

- Lesson 1: Random Sampling Lesson 2: Using Statistical Experiments Lesson 3: Analyzing Population Data Lesson 4: Normal Distributions
- Lesson 5: Estimating Populations Parameters

Module 11 Trigonometric Functions

- Lesson 1: Angles and Angle Measure Lesson 2: Trigonometric Functions of General Angles
- Lesson 3: Circular and Periodic Functions
- Lesson 4: Graphing Sine and Cosine Functions
- Lesson 5: Graphing Other Trigonometric Functions
- Lesson 6: Translations of Trigonometric Graphs
- Lesson 7: Inverse Trigonometric Functions

Module 12 Trigonometric Identities and Equations

Lesson 1: Trigonometric Identities

- Lesson 2: Verifying Trigonometric Identities
- Lesson 3: Sum and Difference Identities
- Lesson 4: Double-Angle and Half-Angle Identities
- Lesson 5: Solving Trigonometric Equations

Module 13 Systems of Equations and Matrices

Lesson 1: Representing Data Using Matrices
 Lesson 2: Operations with Matrices
 Explore 13–2: Scalar Multiplication
 Lesson 3: Multiplying Matrices
 Explore 13–3: Geometric Transformations by Using Matrix Multiplication
 Math Probes: Matrices and Matrix Operations
 Lesson 4: Solving Systems of Equations Using Cramer's Rule
 Explore 13–4: Using Determinants
 Lesson 5: Solving Systems of Equations Using Inverse Matrices
 Explore 13–5: Solving Systems of Equations Using Using Technology

Lesson Model Overview

The *Oklahoma Reveal Math* lesson is organized into a three-part instructional model supported by differentiation throughout. Each lesson includes opportunities for flexibility using both print and digital resources.



Launch

Teachers use the **Warm-Up** at the start of the lesson for a brief review of prerequisite skills before leading into **Launch the Lesson**, designed as a real-world problem to interest students and introduce them to questions they can answer by the end of the lesson.

Explore & Develop

Teachers introduce the **Explore** activity and have the option to break students into pairs or small groups to work together on this exploratory mathematical task to build a shared understanding. This is followed by a whole group share out and **Learn** activity to formalize student understanding.

Students continue to take ownership of learning by working through **Examples** and **Talk About It!** prompts to encourage math discourse. **Checks** after several **Examples** provide a quick formative assessment moment for teachers to evaluate students' understanding.



Reflect & Practice

At the conclusion of the lesson, the teacher displays the Exit Ticket to evaluate student understanding.

The Practice, Extra Practice, and/or Spiral **Review** assignments follow the Differentiate phase and conclude the lesson.

Differentiate

Using the data from **Checks** and the Exit Ticket, teachers can choose from a variety of **Differentiated Resources** to support student learning needs.

AL Approaching Level

Resources designed to provide prerequisite skill support.

OL On Level

Resources for on-level instructional needs.

BL Beyond Level

Resources to extend lesson concepts.

Spark Curiosity



Each module includes an **Ignite!** activity designed to:

- Spark students' interest and curiosity.
- Provide multiple entry points.
- Motivate students to persevere through problem-solving challenges.

Who Doesn't Use the Internet?		
The table shows the results of surveys on Internet	Internet Non-Usage	Among Adults in U.S.
non-usage taken every few years since 2000.	Year	Percent of Respondent
Study the table.	2000	48
	2005	32
	2010	24
	2015	15
	Source: Pew Research Center	10
What do you notice?	What questions	can you ask?
Talk About It! Share your observations and q You will work with your partner to answer this qu use the Internet?	uestions with a partner. estion: When will almos	t everyone
Talk About It! Share your observations and q You will work with your partner to answer this qu use the Internet? Analyze the Problem	uestions with a partner. estion: When will almos	t everyone
 Talk About It! Share your observations and q You will work with your partner to answer this qu use the Internet? Analyze the Problem What assumptions are you making? Why are you 	uestions with a partner. estion: When will almos you making these assum	t everyone ptions?
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"Let's bring curiosity, wonder, and joy back into the classroom and make math irresistible for kids."

–Raj Shah, Ph.D., Contributing Author

Sense-Making and Reasoning

Online **Explore** activities focus on an **Inquiry Question** and place a unique emphasis on student discovery, exploration, sense-making, and reasoning, rather than focusing solely on the correct answer.





"We have a huge opportunity today in helping students become such strong, fluid, and flexible thinkers that they are able to use mathematics and see opportunities to use it in places we may not even imagine."

-Cathy Seeley, Expert Advisor

Problem Solving and Application

Oklahoma Reveal Math provides a foundation for students to take increased ownership of learning to become effective problem solvers and critical thinkers.

Demonstrating Perseverance

Rich multi-step application exercises and higher-order thinking questions encourage productive struggle.



Mathematical Modeling Tasks

Ignite! Mathematical Modeling activities call for students to construct and develop a model to analyze and present a solution to a real-world scenario. Students then share and discuss their findings with the entire class.

IGNITE! Math t's a Puzzle	ematica	al Modeling	• cube com	petitions.	
Study the table.					
Competitor, Year	Time (s)	Competitor, Year	Time (s)	Competitor, Year	Time (s)
Dan Knights, 2003	16.71	Kon van Bruchem, 2007	9.55	Lucas Etter, 2015	4.90
Jess Bonde, 2003	16.53	Yu Nakajima, 2008	8.72	Mats Valk, 2016	4.74
Shotaro Makisumi, 2004	15.07	Erik Akkersdijk, 2008	7.08	Feliks Zemdegs, 2016	4.73
Shotaro Makisumi, 2004	12.11	Feliks Zemdegs, 2010	7.03	Patrick Ponce, 2017	4.69
Jean Pons, 2005	11.75	Feliks Zemdegs, 2010	0.77	Seungbeom Cho, 2017	4.59
Leyan Lo, 2006	10.49	Feliks Zemdegs, 2011	0.05	Vushana Du 2018	4.22
Edouard Chambon 2007	10.46	Mate Valk 2012	5.60	rusneng Du, 2018	3.47
Erik Akkarsdiik 2007	0.77	Collin Burns 2015	5.25		
What do y	ou notice	?	What qu	uestions can you ask?	

Tools to Support Visualization and Modeling

As math increases in complexity, students will benefit from tools that allow them to represent mathematics in different ways. *Oklahoma Reveal Math* includes **Web Sketchpad**[®] at the point of use within the lessons.



An **eToolkit** accessible from inside the Digital Student Center enables students to learn through dynamic mathematical models.



Pause and Reflect

Reflection helps drive accountability and gives students the opportunity to think and write about their learning. Students are regularly asked during **Pause and Reflect** to explain what they have learned.



Notetaking for Understanding

The **Student Edition** is organized with Cornell-inspired margins for students to document notes, draw figures, list key takeaways, or outline strategies.

Given f and g, find [f o g](x) and [range for each.	$g \circ f$](x). State the domain and	
$f = \{(1, 12), (10, 11), (0, 13), (9, 7)\}$	g = {(4, 1), (5, 0), (13, 9), (12, 10)}	
Part A Find [f o g](x) and [g o f](x).	
To find $f \circ g$, evaluate $g(x)$ first then use the range to evaluate $f(x)$.	To find $g \circ f$, evaluate $f(x)$ first then use the range to evaluate $g(x)$.	
f[g(4)] = f(1) or g(4) = 1	g[f(1)] = g(12) or f(1) = 12	
f[g(5)] = f(0) or g(5) = 0	g[f(10)] = g(11) $f(10) = 11$	
f[g(13)] = f(9) or g(13) = 9	g[f(0)] = g(13) or f(0) = 13	
f[g(12)] = f(10) or $g(12) = 10$	g[f(9)] = g(7) $f(9) = 7$	
Because 11 and 7 are not in the do for $x = 11$ and $x = 7$. So, $g \circ f = \{(1, 2)\}$	omain of <i>g</i> , <i>g</i> ∘ <i>f</i> is undefined 10), (0, 9)}.	
Part B State the domain and ran	ge.	
[f o g](x): The domain is the x-coor	dinates of the composed function, so	
D = {, 5,, 13}. The range is	the y-coordinates of the composed	
function, so R = [7, 11,,].		
Example 5 Compose Fur	ictions	
Given $f(x) = 2x - 5$ and $g(x) = 3$. the domain and range for each.	x, find $[f \circ g](x)$ and $[g \circ f](x)$. State	
Part A Find [f o g](x) and [g o f](x	ı).	
$[f \circ g](x) = f[g(x)]$	omposition $[g \circ f](x) = g[f(x)]$ if functions	
= :	Substitute. $=g(2x-5)$	
= 2(3x) - 5 Sub	stitute again. =	Study Tip
	Simplify. $= 6x - 15$	ensure you have the
= 6x - 5		right domain and
= 6x - 5 Part B State the domain and ran	ge.	and the second s
= 6x - 5 Part B State the domain and ran Because $[f \circ g](x)$ and $[g \circ f](x)$ are	ge. • both linear functions with nonzero	range, it can help to graph $[f \circ g]$ (x) and
= 6x - 5 Part B State the domain and ran Because [f \circ g](x) and [g \circ f](x) are slopes, D = [] and	ge. both linear functions with nonzero d R = (all real numbers) for both	range, it can help to graph $[f \circ g](x)$ and $[g \circ f](x)$.
= 6x - 5 Part B State the domain and ram Because [$f \circ g$](x) and [$g \circ f$](x) are slopes, D = () and functions.	ge. both linear functions with nonzero d R = (all real numbers) for both	range, it can help to graph $[f \circ g](x)$ and $[g \circ f](x)$.

Purposeful Practice

Practice in *Oklahoma Reveal Math* provides students with ample opportunity to demonstrate conceptual understanding and procedural fluency. Teachers may choose to fully customize pre-built practice sets and questions.

Practice assignments can be completed in the print Student Edition, using a printable worksheet, or within the Digital Student Center.

Extra Practice assignments contain additional questions for each lesson on a printable worksheet or within the Digital Student Center.





Benefits of Digital Practice

- Multiple Attempts
- Embedded Student Learning Aids
- Tech-Enhanced Question Types
- Dynamic Question Functionality
- Auto-Scoring
- Thousands of Practice Bank Questions



Dynamic Practice

Questions that change value for each student and each attempt are found in Extra Practice, Spiral Review, and Dynamic Module Practice sets.

Question 3		
The triangles below a	re congruent and their corresponding parts are marked.	
Name all the correspondence of the the terms of t	A	
(a) ∠A ≅ ∠	(b) $\overline{AB} \cong \prod$	
$\angle B \cong \angle$	$\overline{AC} \cong \blacksquare$	
	$\overline{BC} \approx \Pi$	
$\angle C \cong \angle$		

LearnSmart[®]

After several modules, assign students personalized, adaptive practice focused on learning objectives.



Module Test Practice

Assessment practice concludes the module in the student edition for *Oklahoma Reveal Algebra 1* and *Oklahoma Reveal Geometry*.



Spiral Review

End-of-lesson practice on concepts presented in prior lessons.

This supplies has first and a Circle and a Theory and a Theory and Data D	
This question has two parts, ensu, answer Part A. Then, answer Part B.	6
Part A	
Use the information $a = 16$, $b = 20$, and $C = 54^{\circ}$ to answer parts a and b .	-
a. Determine whether $ riangle ABC$ should be solved by beginning with the Law of Sines or Law of Cosines.	-
	E)
Part B	
b. Solve the triangle. Round side lengths to the nearest tenth and angle measures to the nearest degree, if necessary.	
A 81	
B ~	
B =	

ACT[®] and SAT[®] Practice

Oklahoma Reveal Algebra 2 includes student-directed practice support with a **McGraw Hill ACT Practice Book** or **McGraw Hill SAT Practice Book** option. Question sets are also available for digital administration.



Positive Math Habits

Oklahoma Reveal Math is infused with research-based best practices designed for teachers to establish a culture of positivity and success where students find purpose in effort and learning opportunities through questions, errors, and discourse.

Mindset Matters

Teachers are prompted at the beginning of every module with **Mindset Matters** to implement strategies for encouraging a growth mindset during upcoming lessons.



Mindset Matters

View Challenges as Opportunities

Part of cultivating a growth mindset in math involves viewing challenging problems or tasks as an opportunity to learn and make new connections in your brain.

How Can I Apply It?

Encourage students to embrace challenges by trying problems that are thought provoking, such as the **Higher-Order Thinking Problems** in the practice section of each lesson. Remember to regularly remind students that each new challenge is an opportunity to grow.

Mathematical Discourse

As a discourse-driven program, *Oklahoma Reveal Math* makes class discussion part of the norm through Student Edition **Talk About It!** prompts and corresponding Teacher Edition **Questions for Mathematical Discourse** prompts.

Purposeful Tasks to Deepen Understanding

Oklahoma Reveal Math tasks are designed to provide students structure to explore, uncover ideas, justify thinking, and ask each other questions to deepen understanding.



Encourage Collaboration:

Provide opportunities for students to collaborate using the **Ignite!** activity or within the lesson using **Explore and Learn** activities, which supply a framework to solve, discuss, and evaluate problems.

Share and Narrow

Have students respond to the *Talk About It!* question with a partner.

As a class, narrow down to one question that they will work with their partner to answer for the duration of the activity. Have them record the question. You may wish to guide them to the target question, which targets the common misconception shown.

Target Question How many triangles can you find?

Common Misconceptions Some students will approach this problem by listing all of the potential triangles they can find. Other students will try to find a pattern in the triangles. Both methods should help them find all 42 triangles. Students may not notice that some of the triangles are being counted twice. However, working with a partner may help them identify that potential pitfall.

Focus on Inquiry:

Online **Explore** activities begin with an openended **Inquiry Question** to encourage deep thinking and reasoning. Students document their findings either online or on an **Explore Recording Sheet**.

NAME	DATEPERIOD
Explore Triangle Angle Sums	
Online Activity In this Explore, you will use angles and compute their sum. Then, you measurements when the triangle is move	e a sketch to graph a triangle, measure its a will investigate what happens to the angle ed around or is changed.
INQUIRY Is there a relationship associate how do we prove that this relationship is	ed with the interior angles of a triangle? If so, always true?
You can use the sketch to investigate and ma measures of the angles in a triangle. Then, yo why your conjecture is true.	uke a conjecture about the sum of the ou can continue sketching to demonstrate
Explore Angle Measures	Show Angle Measures
 What observation can you make about the measures of the angles in △ABC? Make a conjecture about the sum of the 	(Brow Arge Sum Brow Relation 1 (Brow Relation 2 exemeasures of the interior angles in any triangle.
 How is ∠BAC related to ∠C'BA? Justify year to be a set of the se	our answer.
Exolore - Trianele Anele Sums	© McGraw-Hill Education

Talk About It! prompts ask students to explain their reasoning and discuss their thinking.

Talk About It! Ellie believes that she can solve for m∠3 before solving for m∠1. What useful questions can you ask to understand her approach?

Building Mathematical Language

Oklahoma Reveal Math was developed around the belief that mathematics is about communication: listening, speaking, reading, and writing. All students will benefit from support designed to develop and promote the use of mathematical language.

MLR

Math Language Routines

Occur in every lesson to promote the use of mathematical language.

Language Development Handbook Pages

Graphic organizers, tools, and tips to build students' academic and math vocabulary within each lesson.

ELL

English Language Learners

Embedded in each lesson and based on combined WIDA proficiency levels to help students understand math vocabulary, ideas, and concepts in context.

Language of Math

Promotes the development of key vocabulary terms that support how students talk and think about math in the context of each lesson.

Support for English Language Learners (ELLs)

In addition to embedded Teacher Edition language support strategies, *Oklahoma Reveal Math* includes resources to assist ELLs with context and language proficiency.



- Spanish Videos
- Audio to Improve Listening Comprehension Skills
- English/Spanish Glossary
- Multilingual eGlossary
- ALEKS[®] Bilingual Courses in Spanish

*with Oklahoma Reveal Math and ALEKS bundle

Real-World Connections

Oklahoma Reveal Math is about students recognizing that math is everywhere in the world around them and that the world offers them an infinite number of problem-solving opportunities.

Relatable Scenarios

A **Launch the Module** video highlighting an authentic, recognizable scenario engages students in the upcoming lesson topics.



Relevant Connections

A **Launch the Lesson** real-world situation related to the mathematics in the upcoming lesson helps students make connections.



🚱 Example

Lessons also contain real-world **Examples** and **Apply Examples**, highlighted with a globe icon, designed to provide relevant contexts in which students can see themselves.

Multicultural Contributions

To provide students with diverse perspectives, **Math History Minutes** highlight the contributions of leading mathematicians, past and present, from all over the world.



Assessments

Oklahoma Reveal Math offers a comprehensive set of assessments, including diagnostic, formative, and summative options for teachers to effectively evaluate what students know and where they need support.



Туре	Student Edition	Online Resources
Diagnostic	• Are You Ready?	 Course Diagnostic Module Diagnostic Warm Up
Formative	 Examples Lesson Practice including Skills, Application, Higher Order Thinking Cheryl Tobey Formative Assessment Probe Check 	 Items from Student Edition Extra Examples Extra Practice Spiral Review Put it All Together Exit Ticket ALEKS*
Summative	• Module Review	 Module Tests Forms A, B and C Performance Task End-of-Course Assessment

Print and Digital Formats

All *Oklahoma Reveal Math* assessments are available for either print or digital administration. Print assessments can be found in the **Digital Teacher Center** as editable Word documents.



*with Oklahoma Reveal Math and ALEKS bundle

Data to Drive Instructional Insights

Actionable data is a click away in the Digital Teacher Center with the *Oklahoma Reveal Math* Reporting Dashboard.

80 Dashboard			
Course	Find Student \vee	Filter Assignments \checkmark	<u> </u>
Gradebook	Overall Class Average	Student Distribution	,
ES Assisoments Basser Bereats C Assessments My Tools	85%	ted.	 0% scored 0-59% 0% scored 60-69% 33% scored 70-79% 33% scored 80-89% 33% scored 90-100%

Activity Performance Report

Teachers can review useful data points for class activities, including item analysis by student and class, as well as overall performance.

Oklahoma Standards Report

Teachers can access information on class performance by Oklahoma Mathematics Standards, including a cumulative score by class and student.

MAP Growth* Report

Teachers can view students' *MAP® Growth™* RIT scores and progress throughout the year.

Integrate MAP Growth Data*

MAP Growth, the market's most trusted and accurate interim assessment, integrates its data with *Oklahoma Reveal Math* on the Open Learning Platform.

MAP Growth data can save teachers time by identifying students who may need additional support to access grade-level content. **Auto-Grouping** and **Recommended Targeted Skill Paths** provide support and review of critical prerequisite skills.

* For districts that use Map Growth Data

Targeted Remediation and Differentiation

Identify Unfinished Learning

Question 4

O C) (2, -3) O D) (3, -2)

Before beginning the module, assign the **Module Diagnostic** to evaluate student readiness for the module content.



Targeted Remediation

Review student scores to evaluate and determine the appropriate resources to assign.



ALEKS

Using adaptive questioning, *ALEKS** quickly and accurately determines what topics a student knows and is ready to learn next.



Review Activities

Each **Review Learn** and **Review Example** provides students with a key concept overview and several examples to meet their prerequisite skill needs.

*with Oklahoma Reveal Math and ALEKS bundle

Enrich Learning with Differentiated Resources

During instruction, after reviewing formative assessment sources and data, choose from a variety of differentiation options to meet the needs of your students.

Take Another Look On-Level Reteach Mini-Lessons*

Supplement core instruction with built-in reteach support, including **Model**, **Interactive Practice**, and **Data Check** resources.

* Oklahoma Reveal Algebra 1



Extension Activities

Digitally assign to students who are ready for a challenge.



Quick Review Math Handbook

This resource provides additional instruction and practice for prerequisite skills.



Video Library

Students have access to help videos, **Foldables** support videos, and **Personal Tutor** concept videos for reference. Teachers may choose to assign them for additional student support.

r no. If

Add *ALEKS** for Personalized Learning

Oklahoma Reveal Math and *ALEKS* provide students the added advantage of a personalized learning pathway continuously adapting to them.

Number of Students Included in This Report	: 46 🕕			Tips 🥊
Show: Current Progress 💙 Sho	ow: All Students	~	Dov	vnloads ≚
TT	Select Slice to See Progress 0%	ALEKS Pie Progress 153.8 Mastered, 16.7 Learned, 320.5 Remaining Topics	35%	
	Тор Б	Top Ready to Learn Topics		
		• Identifying correlation and causation		85%
		• Finding slope given the graph of a line in quadrar	t 1 that models a real-world situat	ion 80%
		Interpreting the graphs of two functions		76%
		• Solving a word problem with two unknowns using	a linear equation	74%
Current Progress				
ALEKS Table of Contents Stand	lards		and a second second second second	all trains
View Course Content by Standards			view all topics / nice	all topics ()

- ALEKS can be used effectively for all students, targeting the exact topics each is most ready to learn. This approach minimizes frustration, accelerates learning momentum, and builds confidence.
- Teachers can create ALEKS assignments directly connected to Oklahoma Reveal Math, so students work on lesson-level content with prerequisite topic support.
- For students who need more challenge, *ALEKS* provides additional extension opportunities and allows students to progress at their own pace.

- ALEKS course content spans from Grade 3 to Precalculus for infinite options for course content support.
- An automatic cycle of assessment in ALEKS ensures each student's learning pathway is continually refreshed.
- ALEKS reports provide visibility at a granular level to measure progress by student, topic, or Oklahoma Mathematics Standards.

*with Oklahoma Reveal Math and ALEKS bundle

Target Common Misconceptions

Math Probes, written by Cheryl Tobey, are designed to uncover students' misconceptions within every module. These probes, placed at the point of use, allow teachers to make sound instructional choices targeting specific mathematics concepts.

Cher	ad Tobes	Math Prohe		
Mode	ling with I	Linear Equations		
WIOUR	and with	Linear Equations		
The gra drew a	ph shows dat best-fit line a	a collected by a group on a found the equation	of students. They of the line to be	
$y = \frac{7}{2}x$	+ 70. When th	ne same data were ente	red into a graphing	60
calcula	tor and a regr	ession model found, the	e equation was	40 30
y = 3.43	Lx + 22.85.			10
Four et	udante chara i	their evelopations of u	w the best fit equation	• 15 16 17 18 19 20 21 22 23 ×
regress	ion model. W	ith whom do you agree	, and why?	ris so unrerent from the
_			-	
	Circle agre	e or disagree.	Explain	your choice.
Stud	lent 1: The be	st-fit equation is		
diffe	rent from the	regression model		
beca	ause they did i	not draw an accurate		
Dest	-rit line.			
	agree	disagree		
6				
diffe	ent 2: The be erent because	of the intervals.		
	agree	disagree		
Stur	ent 3. The line	e drawn and		
equi	ation written f	for the best-fit line		
are	accurate, so th	ne graphing calculator		
mus	t be wrong.			
	agree	disagree		
Stuc	lent 4: The cal	lculator always gives		
a dif equi	ferent, but m ation.	ore accurate,		
	agree	disagree		

Each Math Probe features three to four items that are split into two parts:

- Part One assesses students' understanding of concepts.
- 2. Part Two asks students to share their thinking about the concepts.



Written by Contributing Author, Cheryl Tobey

Take Action

The teacher support materials that accompany the Math Probes are designed around a three-part ACT cycle:

- Analyze the Probe
- <u>Collect</u> and Assess Student Work
- <u>Take Action</u>. Provided remedies help teachers correct misconceptions quickly and efficiently.



Efficiently Plan for Instruction

See All Lesson Resources at Once

Teachers can view all the lesson resources and plan from organized lesson landing pages within the **Digital Teacher Center** that align with their print Teacher Edition layout. Lessons can be added to the calendar and easily accessed from the **Teacher Dashboard** on the day of learning.

My Programs	Table Of Contents *				
88 Destributed	Lesso	on 1: Writing Equations in Slope-Intercept Form		Present 🗹 🚥	
Grantshorek	Assign			> Expand All 🛛 🕸	
Calendar Calendar	> Lesson 1 Info Lesson Resources				
Assionments 85 Roster	Launch		~		
Eecons	<u> </u>	Warm Up - Writing Equations in Slope-Intercept Form Decorption: The prevention exact helps the sacher ontermine whether students are proform in the prevention skills needed for this lasson. Tage: Learning Beauxer Teacher Only			
Assessments	Presentation				
<u>My Tools</u>	ر ش	Learnch the Lesson - Writing Equations in Slope-Intercept Form Decodeda: The presentation sets introduces indexts to the concept in this lesson in a leaf-word context. Tage: Learning Beausy: - Vedice Braken:			
	Presentation		Assign		
		Todey's Standards - Writing Equations in Slope-Intercept Form		HAVE A QUESTION?	

Plan to Facilitate Productive Learning

Each research-based routine of NCTM's **Effective Teaching Practices** can be found in the structure of the *Oklahoma Reveal Math* Teacher Edition and Digital Teacher Center.

These eight practices include:

- ESTABLISH mathematical goals to focus learning.
- IMPLEMENT tasks that promote reasoning and problem-solving.
- USE AND CONNECT mathematical representations.
- FACILITATE meaningful mathematical discourse.

- **POSE** purposeful questions.
- BUILD procedural fluency from conceptual understanding.
- SUPPORT productive struggle in learning mathematics.
- ELICIT AND USE evidence of student thinking.

Access and Customize Lesson Presentations

Interactive Lesson Presentation

Teachers have a ready-made Interactive Lesson Presentation with embedded eTools, videos, and animations. This presentation is easily customizable: hide resources or upload teacher files, links, and slides.



Expert-Led Professional Development

Teachers and administrators have access to a comprehensive set of self-paced digital resources available within the Digital Teacher Center for each grade.

Program Resources: Course Materials	Preview Student Page	resentation Edit §
	Course Materials	
		SExpand All
Teacher Edition, Corre	elations, and Pacing	\odot
Supporting All Learne	rs	\odot
Professional Learning	Resources	\odot
Course Assessments		\odot
Learning Poseurces		\odot

Quick Start

Teachers can get up to speed quickly with the *Oklahoma Reveal Math* resources and curriculum overview.

Digital Walkthrough

Digital platform guidance from a teacher view and a student view.

Instructional Videos

Oklahoma Reveal Math authors and experts present guidance and tips on the program.

Cathy Seeley:

- Productive Struggle and Discourse
- Fostering a Positive Math Mindset

Dr. Raj Shah:

Ignite! Activities

Cheryl Tobey:

Math Probes



Notes

Notes			



Reveal the Full Potential in Every Student Learn more at **mheonline.com/oklahoma**



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