ALGEBRA 2 Unit 1 Unit Dependency: A1.5

What's Next?	1	1.1	
The Tower of Hanoi	1	1.2	
Checker Jumping Puzzle	1	1.3	
Next?	1	1.4	
Notice and Wonder: A Pattern in Lists	1	2.1	
Paper Slicing	1	2.2	
Complete the Sequence	1	2.3	
A Possible Geometric Sequence	1	2.4	
Remembering Function Notation	1	3.1	
Three Sequences	1	3.2	
Representing a Sequence	1	3.3	
Do What's Next	1	3.4	
Where Does It Live?	1	4.1	
Fill Down	1	4.2	
Plot Some Points	1	4.3	
Use a Spreadsheet	1	4.4	
Bowling for Triangles (Part 1)	1	5.1	
Bowling for Triangles (Part 2)	1	5.2	
Let's Define Some Sequences	1	5.3	
Define This Sequence	1	5.4	
Reading Representations	1	6.1	
Matching Recursive Definitions	1	6.2	
Squares of Squares	1	6.3	
Represent this Sequence	1	6.4	
Which One Doesn't Belong: Recursive Definitions	1	7.1	
Info Gap: Ways To Represent A Sequence	1	7.2	
It's Geometric	1	7.3	
Which One Doesn't Belong: Repeated Operations	1	8.1	
More Paper Slicing	1	8.2	
A Sierpinski Triangle	1	8.3	
Different Types of Equations	1	8.4	
Math Talk: Multiplying Fractions	1	9.1	
Take the Cake!	1	9.2	
Fibonacci Squares	1	9.3	
Ow, My Jaw	1	9.4	
Describing Growth	1	10.1	
Finding Population Patterns	1	10.2	
Finding Square Patterns	1	10.3	
Two Bacteria Populations	1	10.4	
Math Talk: Adding Terms	1	11.1	
Paper Trail	1	11.2	
A Threefold Design	1	11.3	
Half the Homework	1	11.4	
Assessment			

ALGEBRA 2 Unit 2 Unit Dependency:A2.1

Which One Doesn't Belong: Boxes	2	1.1	
Building Boxes	2	1.2	
Building the Biggest Box	2	1.3	
A Box's Domain	2	1.4	
Notice and Wonder: Writing Numbers	2	2.1	
Polynomials in the Integers	2	2.2	
A Yearly Gift	2	2.3	
A Different Account	2	2.4	
Which One Doesn't Belong: What are Polynomials?	2	3.1	
Card Sort: Equations and Graphs	2	3.2	
Let's Make Some Curves	2	3.3	
Identifying Features	2	3.4	
Notice and Wonder: What Can Happen to Integers	2	4.1	
Experimenting with Integers	2	4.2	
Experimenting with Polynomials	2	4.3	
Mind the Gaps	2	4.4	
Notice and Wonder: Factored Form	2	5.1	
What Values of x Make These Equations True?	2	5.2	
Factors, Intercepts, and Graphs	2	5.3	
Polynomial Graphing Error	2	5.4	
Which One Doesn't Belong: Small Differences	2	6.1	
The Return of the Box	2	6.2	
Using Diagrams to Multiply	2	6.3	
Spot the Differences	2	6.4	
Identifying Polynomial Features	2	6.5	
More Than Factors	2	7.1	
Choosing Windows	2	7.2	
What's the Equation?	2	7.3	
A Possible Polynomial Equation	2	7.4	
Notice and Wonder: A Different View	2	8.1	
Polynomial End Behavior	2	8.2	
Two Polynomial Equations	2	8.3	
Identifying End Behavior	2	8.4	
It's a Cover Up	2	9.1	
The Case of Unexpected End Behavior	2	9.2	
Which is Greater?	2	9.3	
Describe the End Behavior	2	9.4	
Notice and Wonder: Duplicate Factors	2	10.1	
Sketching Polynomials	2	10.2	
Using Knowledge of Zeros	2	10.3	
One Last Sketch	2	10.4	
Math Talk: When f Meets g	2	11.1	
More Points of Intersection	2	11.2	
Graphing to Find Points of Intersection	2	11.3	
Find Some More Points	2	11.4	
Notice and Wonder: A Different Use for Diagrams	2	12.1	
Factoring with Diagrams	2	12.2	
More Factoring with Diagrams	2	12.3	
A Product of Linear Factors	2	12.4	
Notice and Wonder: Different Divisions	2	13.1	
Polynomial Long Division	2	13.2	
More Long Division	2	13.3	
Missing Numbers	2	13.4	
A Small Division Error	2	13.5	
What Else is True?	2	14.1	
Info Gap: More Polynomials	2	14.2	
Even More Polynomials	2	14.3	
How Would You Factor?	2	14.4	
Notice and Wonder: Division Leftovers	2	15.1	
The Unknown Coefficient	2	15.2	
A Study of Remainders	2	15.3	
Using Remainder Knowledge	2	15.4	
Mid-Unit Assessment			
The Least Material	2	16.1	
Figuring Out Cylinder Dimensions	2	16.2	
Calculating Surface Area	2	16.3	
Minimum Materials	2	16.4	

Biking 10 Miles (Part 1)	2	17.1	
Biking 10 Miles (Part 2)	2	17.2	
Card Sort: Graphs of Rational Functions	2	17.3	
Homecoming T-shirts	2	17.4	
Rewritten Equations	2	18.1	
Publishing a Paperback	2	18.2	
Horizontal Asymptotes	2	18.3	
Publishing a Paperback, Revisited	2	18.4	
Different Divisions, Revisited	2	19.1	
Combined Fuel Economy	2	19.2	
Exploring End Behavior	2	19.3	
Finding End Behavior	2	19.4	
Notice and Wonder: Denominators and Solutions	2	20.1	
Rationalizing the Price of T-shirts	2	20.2	
Batting Averages	2	20.3	
Selling Sweatshirts	2	20.4	
Math Talk: Adding Rationals	2	21.1	
A Rational River	2	21.2	
Rational Resistance	2	21.3	
Solving Rational Equations	2	21.4	
Notice and Wonder: Thoughtful Multiplication	2	22.1	
Rational Solving	2	22.2	
More Rational Solving	2	22.3	
Find Rational Solutions	2	22.4	
Let's Find Some Differences	2	23.1	
A Closer Look at Differences	2	23.2	
That Expression is How Big?	2	23.3	
Is This an Identity?	2	23.4	
Revisiting an Old Theorem	2	24.1	
Theorems and Identities	2	24.2	
Identifying Identities	2	24.3	
Egyptian Fractions	2	24.4	
A Cubic Identification	2	24.5	
Notice & Wonder: A Snowflake's Return	2	25.1	
A Geometric Addition Formula	2	25.2	
The Sum of Antibiotics	2	25.3	
After the Last Dose	2	25.4	
Some Interesting Sums	2	26.1	
That's a lot of Houses	2	26.2	
Back to Funding the Future	2	26.3	
That's a Lot!	2	26.4	
Assessment			

ALGEBRA 2 Unit 3 Unit Dependency: A2.2

Which One Doesn't Belong: Exponents and Equations	3	1.1	
Name That Power	3	1.2	
The Power of Zero	3	1.3	
Matching Exponent Expressions	3	1.4	
The Power of Negative Thinking	3	1.5	
It's a Square	3	2.1	
Squares and Their Side Lengths	3	2.2	
Cube It	3	2.3	
What is a Square Root?	3	2.4	
Sometimes It's Squared and Sometimes It's Cubed	3	3.1	
To the...Half?	3	3.2	
Fraction of What, Exactly?	3	3.3	
Exponents and Radicals	3	3.4	
Write It Two Ways	3	3.5	
Math Talk: Regrouping Fractions	3	4.1	
You Can Use Any Fraction As an Exponent	3	4.2	
Fractional Powers Are Just Numbers	3	4.3	
Third It	3	4.4	
Math Talk: Don't Be Negative	3	5.1	
Negative Fractional Powers Are Just Numbers	3	5.2	
Any Fraction Can Be an Exponent	3	5.3	
Make These Exponents Less Complicated	3	5.4	
Switch It	3	5.5	
Math Talk: Four Squares	3	6.1	
Finding Square Roots	3	6.2	
One Solution or Two?	3	6.3	
Squares and Roots	3	6.4	
2 and -2	3	7.1	
Careful When You Take the Square Root	3	7.2	
Another Way to Solve	3	7.3	
What Happens When You Square Each Side?	3	7.4	
Solve These Equations With Square Roots in Them	3	7.5	
Can You Square It?	3	7.6	
Put Your Arm(s) Up	3	8.1	
Finding Cube Roots with a Graph	3	8.2	
Cube Root Equations	3	8.3	
Solve These Equations With Cube Roots in Them	3	8.4	
Cube It	3	8.5	
Math Talk: Radical Equations	3	9.1	
Getting to the Root of the Problem	3	9.2	
Write Your Own Equation	3	9.3	
A Radical Notion	3	9.4	
Numbers Are Inventions	3	10.1	
The Square Root of Negative One	3	10.2	
Imaginary Numbers	3	10.3	
What is Real? What is Imaginary?	3	10.4	
Math Talk: Squared	3	11.1	
It is i	3	11.2	
The i's Have It	3	11.3	
Complex Numbers	3	11.4	
Squaring Imaginary Numbers	3	11.5	
Math Talk: Telescoping Sums	3	12.1	
Adding Complex Numbers	3	12.2	
Multiplication on the Complex Plane	3	12.3	
Add, Subtract, Multiply	3	12.4	
i Squared	3	13.1	
Multiplying Imaginary Numbers	3	13.2	
Multiplying Complex Numbers	3	13.3	
Squares and Imaginary Numbers	3	13.4	
Which One Doesn't Belong: Complex Expressions	3	14.1	
Powers of $!$	3	14.2	
Add 'Em Up (or Subtract or Multiply)	3	14.3	
Operate on Complex Numbers	3	14.4	
What's Missing?	3	15.1	
Info Gap: What Was Multiplied?	3	15.2	
How Do You Know?	3	15.3	

Find the Perfect Squares	3	16.1	
Different Ways to Solve It	3	16.2	
Solve These Ones	3	16.3	
Oh, and Solve These Ones Too	3	16.4	
Creating Quadratic Equations	3	17.1	
Sometimes the Solutions Aren't Real Numbers	3	17.2	
Finding Complex Solutions	3	17.3	
Can You See the Solutions on a Graph?	3	17.4	
Make One	3	17.5	
Math Talk: Real or Not?	3	18.1	
Be Discriminating	3	18.2	
Solving All Kinds of Quadratics	3	18.3	
Solve This Quadratic	3	18.4	
Notice and Wonder: Where Is It 0?	3	19.1	
Real or Not?	3	19.2	
Make Your Own	3	19.3	
Make it Complex	3	19.4	
Assessment			

ALGEBRA 2 Unit 4 Unit Dependency: A1.5, A2.3

Bank Accounts	4	1.1	
Shrinking a Passport Photo	4	1.2	
Pond in a Park	4	1.3	
Folding into Thirds	4	1.4	
One Fourth at a Time	4	2.1	
Climbing Cost	4	2.2	
Two Vans and Their Values	4	2.3	
Flu Outbreak	4	2.4	
Keeping Equations True	4	3.1	
Florida in the 1800's	4	3.2	
Disappearing Medicine	4	3.3	
Flea Treatment	4	3.4	
Math Talk: Unknown Exponents	4	4.1	
Population of Nigeria	4	4.2	
Got Caffeine?	4	4.3	
Blog Subscribers	4	4.4	
Changes Over Intervals	4	5.1	
Machine Depreciation	4	5.2	
Fever Medicine	4	5.3	
Cost of A Haircut	4	5.4	
All Equivalent?	4	6.1	
Info Gap: Two Points	4	6.2	
Bacteria Growth Expressions	4	6.3	
Finding a and b	4	6.4	
Halving and Doubling	4	7.1	
Radiocarbon Dating	4	7.2	
Old Manuscripts	4	7.3	
Half Gone, Again and Again	4	7.4	
Mid-Unit Assessment			
A Bunch of x's	4	8.1	
A Tessellated Trapezoid	4	8.2	
Successive Splitting	4	8.3	
Missing Values	4	8.4	
Video Viewers	4	8.5	
Math Talk: Finding Solutions	4	9.1	
A Table of Numbers	4	9.2	
Hello, Logarithm!	4	9.3	
Explaining Logarithm to a Friend	4	9.4	
Reading Logs	4	10.1	
Base 2 Logarithms	4	10.2	
Exponential and Logarithmic Forms	4	10.3	
Writing in Different Forms	4	10.4	
Math Talk: Finding Values	4	11.1	
Log War!	4	11.2	
Finding Logarithms with a Calculator	4	11.3	
Calculating Logs	4	11.4	
Matching Situations and Equations	4	12.1	
Notice and Wonder: Moldy Growth	4	12.2	
$(1 + \text{tiny})^{\text{huge}}$	4	12.3	
What Did You Learn about e?	4	12.4	
e on a Calculator	4	13.1	
Same Situation, Different Equations	4	13.2	
e in Exponential Models	4	13.3	
Graphing Exponential Functions with Base e	4	13.4	
Two Population Predictions	4	13.5	
A Valid Solution?	4	14.1	
Natural Logarithm	4	14.2	
Soling Exponential Equations	4	14.3	
Solve Some Equations	4	14.4	
Using a Graph to Estimate	4	15.1	
Retire A Millionaire?	4	15.2	
Cicada Population	4	15.3	
A Moldy Surface	4	15.4	
Two Bank Accounts	4	16.1	
Bacteria in Different Conditions	4	16.2	
Populations of Two Countries	4	16.3	
Reaching 40 Thousand	4	16.4	
Which One Doesn't Belong: Functions	4	17.1	
How Long Will It Take?	4	17.2	
Another Logarithmic Function	4	17.3	

Which Graph Represents Which Function?	4	17.4	
Scrambled Logs	4	18.1	
How Acidic Is It?	4	18.2	
pH Ratings	4	18.3	
Measuring Earthquake Strength	4	18.4	
Apple Juice and Cleaning Solution	4	18.5	
Assessment			

ALGEBRA 2 Unit 5 Unit Dependency: G.5, A2.4

Notice and Wonder: Cooling Down	5	1.1	
Which Function?	5	1.2	
What Happened to the Graph?	5	1.3	
Translating Two Ways	5	1.4	
What Happened to the Equation?	5	2.1	
Writing Equations for Vertical Translations	5	2.2	
Heating the Kitchen	5	2.3	
What Did You Do to My Graph?	5	2.4	
Moving a Graph	5	3.1	
New Hours for the Kitchen	5	3.2	
Thawing Meat	5	3.3	
Translate This	5	3.4	
Notice and Wonder: Reflections	5	4.1	
Reflecting Across	5	4.2	
Reflecting Across a Different Way	5	4.3	
Two Reflections	5	4.4	
Changing Heights	5	5.1	
Card Sort: Two Types of Graphs	5	5.2	
Card Sort: Two Types of Coordinates	5	5.3	
Even or Odd?	5	5.4	
Notice and Wonder: Same and Different	5	6.1	
Finish the Graph	5	6.2	
Odd and Even Equations	5	6.3	
Even More Symmetry	5	6.4	
Describing Translations	5	7.1	
Translating Vertex Form	5	7.2	
An Even Better Fit	5	7.3	
A Translated Equation	5	7.4	
Notice and Wonder: Arch You Glad to See Me?	5	8.1	
The Hulme Arch Bridge	5	8.2	
Feed the Dog	5	8.3	
A Perfect Fit	5	8.4	
Out and Back	5	9.1	
A New Set of Wheels	5	9.2	
The Many Transformations of a Function P	5	9.3	
The Right Scale	5	9.4	
Notice and Wonder: Are Book Sales Improving?	5	10.1	
How Many Books Can One Person Have?	5	10.2	
Adding Functions	5	10.3	
Graphing the Difference	5	10.4	
What Function Could It Be?	5	11.1	
Heating Up	5	11.2	
Assessment			

ALGEBRA 2 Unit 6 Unit Dependency: G.4, G.7

Which One Doesn't Belong: Reading Clocks	6	1.1	
Around and Around	6	1.2	
Where is the Point?	6	1.3	
Two Particular Points	6	1.4	
Notice and Wonder: A Right Triangle	6	2.1	
Recalling Right Triangle Trigonometry	6	2.2	
Shrinking Triangles	6	2.3	
From Coordinates to Cosine	6	2.4	
Finding Coordinates of Points on the Unit Circle	6	3.1	
Which Point?	6	3.2	
Measuring Circles	6	3.3	
Around a Bike Wheel	6	3.4	
Radian measure	6	3.5	
Notice and Wonder: Angles Around the Unit Circle	6	4.1	
Angles Everywhere	6	4.2	
Angle Coordinates Galore	6	4.3	
What are the Circle Coordinates?	6	4.4	
Circle Equations	6	5.1	
Cosine, Sine, and the Unit Circle	6	5.2	
A New Identity	6	5.3	
The (Pythagorean) Identity of Any Point	6	5.4	
Math Talk: Which Quadrant?	6	6.1	
Andre's Calculations	6	6.2	
Card Sort: Where's the Point?	6	6.3	
$\sin(\theta)$ and a Quadrant	6	6.4	
Notice and Wonder: Big and Small	6	7.1	
Clock Coordinates	6	7.2	
Around a Ferris Wheel	6	7.3	
An Airplane Propeller	6	7.4	
Notice and Wonder: A Bouncing Curve	6	8.1	
What is Happening?	6	8.2	
Card Sort: Graphs of Functions	6	8.3	
Measuring the Hours	6	8.4	
An Angle and a Circle	6	9.1	
Do the Wave	6	9.2	
Graphs of Cosine and Sine	6	9.3	
Which Wave is It?	6	9.4	
All the Way Around	6	10.1	
Going Around and Around and Around	6	10.2	
Back to Where We Started	6	10.3	
Turn it Around	6	10.4	
Rewind to the Windmill	6	11.1	
Math Talk: The Hour Hand	6	11.2	
The Big Picture for Cosine and Sine	6	11.3	
Cosine and Sine Together	6	11.4	
Turn it Around Again	6	11.5	
Notice and Wonder: An Unusual Function	6	12.1	
A Tangent Ratio	6	12.2	
The Tangent Function	6	12.3	
The Graph of Tangent	6	12.4	
Mid-Unit Assessment			
Comparing Parabolas	6	13.1	
Blowing in the Wind	6	13.2	
Up, Up, and Away	6	13.3	
Transforming a Sine Graph	6	13.4	
Translated Parabolas	6	14.1	
Windmills Everywhere	6	14.2	
Spinning Fan	6	14.3	
Translating and Stretching	6	14.4	
Notice and Wonder: Musical Notes	6	15.1	
Equations and Graphs	6	15.2	
Double the Sine	6	15.3	
To the left, to the right	6	15.4	
Which One Doesn't Belong: Graph Periods	6	16.1	
Any Period	6	16.2	
Around the World’s Largest Ferris Wheel	6	16.3	
Turn, Turn, Turn	6	16.4	
Three Functions	6	17.1	
Info Gap: What's the Transformation?	6	17.2	
Match the Graph	6	17.3	

Follow the Moves	6	17.4	
Comparing Bikes	6	18.1	
Around a Carousel	6	18.2	
Modeling the Carousel Motion	6	18.3	
A different Carousel	6	18.4	
Notice and Wonder: Examining Data	6	19.1	
Watching the Evening Sky	6	19.2	
A Titanic Orbit	6	19.3	
Assessment			

ALGEBRA 2 Unit 7 Unit Dependency: A1.1

Notice and Wonder: Headlines	7	1.1	
Take Turns: Statistical Design	7	1.2	
A New Show	7	1.3	
What's Different About These Questions?	7	2.1	
Study Type Matching	7	2.2	
Relaxing Television	7	2.3	
Beauty Is In The Eye Of The Beholder	7	2.4	
Study Selection	7	3.1	
Hip Hop Memory	7	3.2	
Random Rectangles	7	3.3	
Why Random?	7	3.4	
Which One Doesn't Belong: Cracking Glass	7	4.1	
Name That Distribution Shape	7	4.2	
Matching Distributions and Statistics	7	4.3	
Drawing a Distribution	7	4.4	
Body Temperature	7	5.1	
Playing a Piano	7	5.2	
Relative Frequency Distribution	7	5.3	
The Normal Curve	7	5.4	
What's Normal?	7	5.5	
Find the Area	7	6.1	
Story Submissions	7	6.2	
Website Load Times	7	6.3	
Dog Weights	7	6.4	
Find the Areas	7	7.1	
Life of Lights	7	7.2	
Waiting for a Waiter	7	7.3	
Brown Bear, What Do You See?	7	7.4	
When Does It Get Weird?	7	8.1	
What is Reasonable?	7	8.2	
Is That Fair?	7	8.3	
Suspicious Rolls	7	8.4	
Selecting Samples	7	9.1	
Examining Sample Statistics	7	9.2	
Variability of Sample Estimates	7	9.3	
What's Wrong With That?	7	9.4	
Mid-Unit Assessment			
Math Talk: Proportions	7	10.1	
Pass or Fail	7	10.2	
Fly Memory	7	10.3	
Planet Searching	7	10.4	
Female Leads	7	11.1	
Finding a Job	7	11.2	
Exercised	7	11.3	
A Little Sleepy	7	11.4	
Rolling Distribution	7	12.1	
Rolling for Means	7	12.2	
Margin of Error for Means	7	12.3	
Streaming Games	7	12.4	
Satisfaction Test	7	13.1	
Randomizing Satisfaction	7	13.2	
Get Ready to Experiment	7	13.3	
Speedy Ladybugs	7	13.4	
Some Distributions	7	14.1	
A Theoretical Experiment	7	14.2	
Simulating to Decide	7	14.3	
The Science Experiment	7	14.4	
Is It the Treatment?	7	15.1	
Info Gap: Is There a Difference?	7	15.2	
Using Tables for Normal Distribution Areas	7	15.3	
What Do You Need to Know?	7	15.4	
Find Your Heart Rate	7	16.1	
The Counting Experiment	7	16.2	
The Flapping Experiment	7	16.3	
Analyzing the Heart Rates	7	16.4	
April Showers Bring May Flowers	7	16.5	
Assessment			