GEOMETRY Unit 1 Unit Dependency: 8.1

The Right Tool	1	1.1	
Illegal Construction Moves	1	1.2	
Can You Make a Perfect Copy?	1	1.3	
Build It	1	1.4	
Math Talk: Why Is That True?	1	2.1	
Make Your Own	1	2.2	
Make Someone Else's	1	2.3	
Constructing a Parallel Line	1	2.4	
Find All the Points!	1	3.1	
Human Perpendicular Bisector	1	3.2	
How Well Can You Slice It?	1	3.3	
Walk the Line	1	3.4	
Notice and Wonder: Circles Circles Circles	1	4.1	
What Polygons Can You Find?	1	4.2	
Spot the Equilaterals	1	4.3	
I'm Stuck In A Circle! Help!	1	4.4	
Two Circles	1	5.1	
Make It Right	1	5.2	
Bisect This	1	5.3	
Bisect That	1	5.4	
Math Talk: Transformations	1	6.1	
Standing on the Shoulders of Giants	1	6.2	
Parallel Constructions Challenge	1	6.3	
Find the Missing Endpoint	1	6.4	
Which One Doesn't Belong: Polygons	1	7.1	
It's Cool to Be Square	1	7.2	
Trying to Circle a Square	1	7.3	
Build a House	1	7.4	
How Do Digital Construction Tools Work?	1	8.1	
Digital Compass and Straightedge Construction	1	8.2	
More Helpful Digital Tools	1	8.3	
Is it a Rectangle?	1	8.4	
Notice and Wonder: Dots in a Square	1	9.1	
Who Is Closest?	1	9.2	
Now Who is Closest?	1	9.3	
Another Layer	1	9.4	
Write a Letter	1	9.5	
Mid-Unit Assessment			
Notice and Wonder: Transformed	1	10.1	
What's the Same?	1	10.2	
Does Order Matter?	1	10.3	
How Will That Get There?	1	10.4	
Which One Doesn't Belong: Crossing the Line	1	11.1	
Info Gap: What's the Point: Reflections	1	11.2	
Triangle in the Mirror	1	11.3	
What Went Wrong? Reflection	1	11.4	
Notice and Wonder: Two Triangles and an Arrow	1	12.1	
What's the Point: Translations	1	12.2	
Translating Triangles	1	12.3	
What Went Wrong? Translation	1	12.4	
Left to Right	1	13.1	
Turning on a Grid	1	13.2	
Translate, Rotate, Reflect	1	13.3	
Find a Sequence	1	13.4	
Math Talk: Comparing Angles	1	14.1	
Info Gap: What's the Point: Rotations	1	14.2	
Turning into Triangles	1	14.3	
What Went Wrong? Rotation	1	14.4	
Back to the Start	1	15.1	
Self Reflection	1	15.2	
Diabolic Diagonals	1	15.3	
Criss Cross	1	15.4	
Which One Doesn't Belong: Symmetry	1	16.1	
Self Rotation	1	16.2	
Parallelogram Symmetry	1	16.3	

Mystery Quad	1	16.4	
Math Talk: From Here to There	1	17.1	
Card Sort: How Did This Get There?	1	17.2	
Reflecting on Reflection	1	17.3	
Get This There	1	17.4	
Notice and Wonder: Obstacles	1	18.1	
Obstacle Course	1	18.2	
Point By Point	1	18.3	
Build Another House	1	18.4	
Math Talk: Supplementary Angles	1	19.1	
That Can't Be Right, Can It?	1	19.2	
Convince Me	1	19.3	
Plead Your Case	1	19.4	
Math Talk: Angle Relationships	1	20.1	
Make a Mark? Give a Reason.	1	20.2	
An Alternate Explanation	1	20.3	
Transformations on Parallel Lines	1	20.4	
What Went Wrong?	1	21.1	
Triangle Angle Sum One Way	1	21.2	
Triangle Angle Sum Another Way	1	21.3	
Triangle Angle Sum a Third Way	1	21.4	
Notice and Wonder: Dramatic Designs	1	22.1	
Duplicate a Design	1	22.2	
Make Your Own Design	1	22.3	
Make Their Design	1	22.4	
Assessment			

GEOMETRY Unit 2 Unit Dependency: 7.7, G.1

Notice and Wonder: Transformed Rectangles	2	1.1	
If We Know This, Then We Know That...	2	1.2	
Making Quadrilaterals	2	1.3	
Making Angle Bisectors	2	1.4	
Math Talk: Which Are Congruent?	2	2.1	
Which Triangles Are Congruent?	2	2.2	
Are These Parts Congruent?	2	2.3	
Connect the Dots	2	2.4	
True or . . . Sometimes True?: Triangles	2	3.1	
Invisible Triangles	2	3.2	
Why Do They Coincide?	2	3.3	
Reflecting on Proof	2	3.4	
Make That Triangle	2	4.1	
Info Gap: Too Much Information	2	4.2	
Too Little Information?	2	4.3	
Angles All the Way	2	4.4	
What's the Point?	2	5.1	
What's the Segment?	2	5.2	
Zig Then Zag	2	5.3	
Circular Logic	2	5.4	
Information Overload?	2	6.1	
Proving the Side-Angle-Side Triangle Congruence Theorem	2	6.2	
What Do We Know For Sure About Isosceles Triangles?	2	6.3	
Revisiting Perpendicular Bisectors	2	6.4	
Notice and Wonder: Assertion	2	7.1	
Proving the Angle-Side-Angle Triangle Congruence Theorem	2	7.2	
Find the Missing Angle Measures	2	7.3	
What Do We Know For Sure About Parallelograms?	2	7.4	
Both (Pairs of) Sides Now	2	7.5	
Which One Doesn't Belong: Intersecting Lines	2	8.1	
Lots of Lines	2	8.2	
Not Too Close, Not Too Far	2	8.3	
Reflect and Revise	2	8.4	
Dare to Be Different	2	9.1	
Proving the Side-Side-Side Triangle Congruence Theorem	2	9.2	
What Else Do We Know For Sure About Parallelograms?	2	9.3	
Practice Seeing Shortcuts	2	9.4	
Brace Yourself!	2	10.1	
Card Sort: More Practice Seeing Shortcuts	2	10.2	
Matching Pictures to Proofs	2	10.3	
Practice Proving	2	10.4	
Notice and Wonder: Congruence Fail	2	11.1	
Dare to Be (Even More) Different	2	11.2	
Ambiguously Ambiguous?	2	11.3	
Are They Ambiguous?	2	11.4	
Play with Parallelograms	2	12.1	
From Conjecture to Proof	2	12.2	
Checking a Proof	2	12.3	
A Proof In Time Saves Nine	2	12.4	
Notice and Wonder: Diagonals	2	13.1	
The Diagonals of a Parallelogram	2	13.2	
Work Backwards to Prove	2	13.3	
Backwards to Forwards	2	13.4	
Why Does This Construction Work?	2	14.1	
Construction from Definition	2	14.2	
Reflecting on Reflection	2	14.3	
Going Both Ways Again	2	14.4	
True or . . . Sometimes True?: Parallelograms	2	15.1	
Floppy Quadrilaterals	2	15.2	
Make Your Own Congruence Theorem	2	15.3	
Rectangles are Special	2	15.4	
Assessment			

GEOMETRY Unit 3 Unit Dependency: 8.2, G.2

Is That the Same Hippo?	3	1.1	
Sketching Stretching	3	1.2	
Mini Me	3	1.3	
Match the Scale Factors	3	1.4	
Solar Eclipse	3	2.1	
Shrinking the Solar System	3	2.2	
Shrinking the Solar System, Take 2	3	2.3	
Watching a Solar Eclipse on the Moon	3	2.4	
Dilating Out	3	3.1	
All the Scale Factors	3	3.2	
What Stays the Same?	3	3.3	
Describing Stretching	3	3.4	
Angle Articulation	3	4.1	
Dilating Lines	3	4.2	
Proof in Parallel	3	4.3	
All Together Now	3	4.4	
Notice and Wonder: Midpoints	3	5.1	
Dilation or Violation?	3	5.2	
A Little Bit Farther Now	3	5.3	
Missing Length	3	5.4	
Dilation Miscalculation	3	6.1	
Card Sort: Not-So-Rigid Transformations	3	6.2	
Alphabet Soup	3	6.3	
Forward and Backwards?	3	6.4	
Notice and Wonder: Nested Triangles	3	7.1	
Stretched or Distorted? Triangles	3	7.2	
Invisible Triangles: Similarity	3	7.3	
Not quite similar	3	7.4	
Stretched or Distorted? Rectangles	3	8.1	
Faulty Logic	3	8.2	
Always? Prove it!	3	8.3	
Samesies	3	8.4	
Math Talk: Angle-Side-Angle As A Helpful Tool	3	9.1	
How Many Pieces?	3	9.2	
Any Two Angles?	3	9.3	
Any Four Angles?	3	9.4	
Math Talk: Triangle Congruence	3	10.1	
Side-Angle-Side Triangle Similarity?	3	10.2	
Side-Side-Side Triangle Similarity	3	10.3	
Make Your Own	3	10.4	
Notice and Wonder: Parallel Segments	3	11.1	
Prove It: Parallel Segments	3	11.2	
Preponderance of Proportional Relationships	3	11.3	
More Proportional Relationships?	3	11.4	
Vegetable Garden	3	12.1	
Card Sort: Corresponding Parts	3	12.2	
Quilting Questions	3	12.3	
Ratios Galore	3	12.4	
Similar, Right?	3	13.1	
Tangled Triangles	3	13.2	
More Tangled Triangles	3	13.3	
Finding Unknown Values in Right Triangles	3	13.4	
Notice and Wonder: Variable Version	3	14.1	
Prove Pythagoras Right	3	14.2	
An Alternate Approach	3	14.3	
Test it Out	3	14.4	
Which One Doesn't Belong: Triangles	3	15.1	
Info Gap: Similar Sequence	3	15.2	
Relatively Reasonable	3	15.3	
Calculate and Check	3	15.4	
Notice and Wonder: Right Triangles	3	16.1	
Bank Shot	3	16.2	
Indirect Measurement (Mirrors)	3	16.3	
Indirect Measurement (No Mirrors)	3	16.4	
What's in the Mirror?	3	16.5	
Assessment			

GEOMETRY Unit 4 Unit Dependency: 8.8, G.3

Ratios Galore	4	1.1	
Can You Calculate?	4	1.2	
Is it Accessible?	4	1.3	
Sidewalk Ramp	4	1.4	
Diagonals of Rectangles	4	2.1	
Decomposing Squares	4	2.2	
Generalize Half Squares	4	2.3	
Another Half Square	4	2.4	
Notice and Wonder: Triangle Slices	4	3.1	
Decomposing Equilateral Triangles	4	3.2	
Generalize Half Equilateral Triangles	4	3.3	
Half of the Half	4	3.4	
Ratio Rivalry	4	4.1	
Tons of Triangles	4	4.2	
Tons of Rations	4	4.3	
Lift Off	4	4.4	
Launch Pad	4	5.1	
Pythagorean Triples	4	5.2	
Solve All the Triangles	4	5.3	
Solve the Triangle	4	5.4	
This Time with Strategies	4	6.1	
New Names, Same Ratios	4	6.2	
Solve These Triangles	4	6.3	
Solve That Triangle	4	6.4	
Tilted Triangle	4	7.1	
Info Gap: Trigonometry	4	7.2	
Tallest Tower	4	7.3	
Tallest Tree	4	7.4	
Which One Doesn't Belong: Four Triangles	4	8.1	
Twin Triangles	4	8.2	
Explain the Co-nnection	4	8.3	
Cosine's Complement	4	8.4	
Once More with the Table	4	9.1	
From Ratios to Angles	4	9.2	
Leaning Ladders	4	9.3	
Again with the Calculator	4	9.4	
Notice and Wonder: Practicing Perimeter	4	10.1	
Growing Regular Polygons	4	10.2	
Gentle Descent	4	10.3	
Again with Area	4	10.4	
More Sides	4	11.1	
N Sides	4	11.2	
So Many Sides	4	11.3	
Assessment			

GEOMETRY Unit 5 Unit Dependency: 8.5, G.4

Which One Doesn't Belong: Solids	5	1.1	
Axis of Rotation	5	1.2	
From Three Dimensions to Two	5	1.3	
Telescope	5	1.4	
Slice This	5	2.1	
Slice That	5	2.2	
Stack 'Em Up	5	2.3	
Sketch It	5	2.4	
Dilating, Again	5	3.1	
Pyramid Mobile	5	3.2	
Circle Dilation	5	3.3	
Squares and Roots	5	4.1	
Scaling Up a Rectangle	5	4.2	
What About Other Shapes?	5	4.3	
Finding an Area	5	4.4	
Transamerica Building	5	5.1	
Two Viewpoints	5	5.2	
Graphing Areas and Scale Factors	5	5.3	
Miniature	5	5.4	
Math Talk: Cube Volumes	5	6.1	
How Do Surface Area and Volume Change with Scaling?	5	6.2	
Scaling All Solids	5	6.3	
One Cubic Foot	5	6.4	
The Number That Cubes	5	7.1	
Thinking Inside the Box	5	7.2	
Satellite Scale Factors	5	7.3	
Finding a Scale Factor	5	7.4	
Going Backwards	5	8.1	
Info Gap: Originals and Dilations	5	8.2	
Jumbo Can	5	8.3	
Dog Food Bags	5	8.4	
The Same But Different	5	9.1	
Water Transfer	5	9.2	
Revisiting Rotation	5	9.3	
Cylinder Strategies	5	9.4	
Two Stacks of Coins	5	10.1	
Rectangular Prism, Shifted	5	10.2	
Equal Volumes?	5	10.3	
Drawing Solids	5	10.4	
New Heights	5	11.1	
The Choice is Yours	5	11.2	
The Cayan Tower	5	11.3	
Cylinder with a Hole	5	11.4	
The Faces of Geometry	5	12.1	
Card Sort: Sorting Shapes	5	12.2	
Building a Prism from Pyramids	5	12.3	
How Many Faces?	5	12.4	
Cover Your Bases	5	13.1	
Splitting a Prism into Pyramids	5	13.2	
Comparing Cross Sections	5	13.3	
Pyramid Strategies	5	13.4	
Volume Matching	5	14.1	
Practice with Pyramids	5	14.2	
An Icy Pyramid	5	14.3	
Pyramid Dimensions	5	14.4	
Math Talk: Volumes	5	15.1	
Missing Measurements	5	15.2	
Spinning into Three Dimensions	5	15.3	
Maximizing Seeds	5	15.4	
Maximize Area	5	16.1	
Maximize in Three Dimensions	5	16.2	
Assume a Spherical Elephant	5	16.3	
Measuring Strength	5	16.4	
Minimize Area	5	16.5	
A Kilogram by Any Other Name	5	17.1	
Light as a Feather	5	17.2	

A Fishy Situation	5	17.3	
Float or Sink?	5	17.4	
Parade Balloon: Part 1	5	18.1	
Parade Balloon: Part 2	5	18.2	
Beach Ball Balloon	5	18.3	
Circular Logo	5	18.4	
Assessment			

GEOMETRY Unit 6 Unit Dependency: A1.6, A1.7, G.4

Traversing the Plane	6	1.1	
Transforming with Coordinates	6	1.2	
Congruent by Coordinates	6	1.3	
A Transformed Triangle	6	1.4	
Math Talk: Transforming a Point	6	2.1	
Inputs and Outputs	6	2.2	
What Does it Do?	6	2.3	
Ready? Transform!	6	2.4	
Why is it a Dilation?	6	3.1	
Congruent, Similar, Neither?	6	3.2	
You Write the Rules	6	3.3	
Write a Rule	6	3.4	
Going the Distance	6	4.1	
Circling the Problem	6	4.2	
Building an Equation for a Circle	6	4.3	
Writing Circle Equations	6	4.4	
Math Talk: Distribution	6	5.1	
Perfectly Square	6	5.2	
Back and Forth	6	5.3	
Center and Radius	6	5.4	
Fill in the Box	6	6.1	
Complete the Process	6	6.2	
Your Turn	6	6.3	
One More	6	6.4	
Notice and Wonder: Distances	6	7.1	
Into Focus	6	7.2	
On Point	6	7.3	
A Point and a Line	6	7.4	
Focus on Distance	6	8.1	
Building an Equation for a Parabola	6	8.2	
Card Sort: Parabolas	6	8.3	
One More Equation	6	8.4	
Remembering Slope	6	9.1	
Building an Equation for a Line	6	9.2	
Using Point-Slope Form	6	9.3	
Same Slope, Different Point	6	9.4	
Translating Lines	6	10.1	
Priya's Proof	6	10.2	
Prove Your Parallelogram	6	10.3	
Parallel?	6	10.4	
Revisiting Transformations	6	11.1	
Make a Conjecture	6	11.2	
Prove It	6	11.3	
Another Perpendicular Line	6	11.4	
Parallel and Perpendicular	6	12.1	
Info Gap: Lines	6	12.2	
Three Lines	6	12.3	
Describe the Line	6	12.4	
Which One Doesn't Belong: Lines and Curves	6	13.1	
Circles and Lines	6	13.2	
Creating Lines	6	13.3	
Find and Verify	6	13.4	
Which One Doesn't Belong: Coordinate Quadrilaterals	6	14.1	
Name This Quadrilateral	6	14.2	
Circular Logic	6	14.3	
Name That Quadrilateral	6	14.4	
Part Way: Points	6	15.1	
Part Way: Segment	6	15.2	
Part Way: Quadrilateral	6	15.3	
Part Way: Triangle	6	15.4	
Triangle Midpoints	6	16.1	
Triangle Medians	6	16.2	
Any Triangle's Medians	6	16.3	
Intersection Point	6	16.4	
Folding Altitudes	6	17.1	

Altitude Attributes	6	17.2	
Percolating on Perpendicular Bisectors	6	17.3	
Perks of Perpendicular Bisectors	6	17.4	
Amazing Points	6	17.5	
Tiling the (Coordinate) Plane	6	17.6	
Assessment			

GEOMETRY Unit 7 Unit Dependency:

Notice and Wonder: Lines and Angles	7	1.1	
The Defining Moment	7	1.2	
Arcs, Chords, and Central Angles	7	1.3	
Draw It	7	1.4	
Notice and Wonder: A New Angle	7	2.1	
A Central Relationship	7	2.2	
Similarity Returns	7	2.3	
Inscribed Angle Measures	7	2.4	
Swim to Shore	7	3.1	
A Particular Perpendicular	7	3.2	
Another Angle	7	3.3	
Tangents and Triangles	7	3.4	
Connecting the Dots	7	4.1	
Inscribed Angles and Circumscribed Circles	7	4.2	
Construction Ahead	7	4.3	
Missing Measures	7	4.4	
One Perpendicular Bisector	7	5.1	
Three Perpendicular Bisectors	7	5.2	
Wandering Centers	7	5.3	
Fair Placement	7	5.4	
Notice and Wonder: Salt Pile	7	6.1	
Point and Angle	7	6.2	
What If There Are Three Sides?	7	6.3	
Which is Which?	7	6.4	
The Largest Circle	7	7.1	
The Inner Circle	7	7.2	
Equilateral Centers	7	7.3	
Circular Table Top	7	7.4	
Math Talk: Fractions of a Circle	7	8.1	
Sector Areas and Arc Length	7	8.2	
Build a Method	7	8.3	
Use Your Method	7	8.4	
What's Your Angle?	7	9.1	
Enough Information?	7	9.2	
Info Gap: From Sector to Circle	7	9.3	
Find the Radius	7	9.4	
Comparing Progress	7	10.1	
A Dilated Circle	7	10.2	
Card Sort: Angles, Arcs, and Radii	7	10.3	
Comparing Angles	7	10.4	
A One-Unit Radius	7	11.1	
A Constant Ratio	7	11.2	
Defining Radians	7	11.3	
Find a Radian Measure	7	11.4	
Which One Doesn't Belong: Angle Measures	7	12.1	
Degrees Versus Radians	7	12.2	
Pie Coloring Contest	7	12.3	
Order Up	7	12.4	
What Fraction?	7	13.1	
A Sector Area Shortcut	7	13.2	
An Arc Length Shortcut	7	13.3	
Calculate It	7	13.4	
Equal Slices	7	14.1	
Pizza Palooze	7	14.2	
A Fair Split	7	14.3	
Let Your Light Shine	7	14.4	
Assessment			

GEOMETRY Unit 8 Unit Dependency: 7.8

Which One Doesn't Belong: Spinners	8	1.1	
You're Saying There's a Chance?	8	1.2	
A Fair Game	8	1.3	
What Affects Probability?	8	1.4	
Taking Names	8	2.1	
Who Was Helpful?	8	2.2	
Probability Words	8	2.3	
Reckless Fishing	8	2.4	
Rolling Cubes	8	3.1	
Spinner Sample Space	8	3.2	
Sample Space Practice	8	3.3	
Sample Space of Sample Space	8	3.4	
Notice and Wonder: Dog City	8	4.1	
Rolling into Tables	8	4.2	
Traveling Methods	8	4.3	
School Attendance	8	4.4	
Notice and Wonder: Birds and Bats	8	5.1	
Eventful Islands	8	5.2	
Info Gap: College and Career Planning	8	5.3	
Number Cube Descriptions	8	5.4	
Playing Sports	8	5.5	
Hats Off, Sneakers On	8	6.1	
State Names	8	6.2	
Coffee or Juice?	8	6.3	
Math in Science Class	8	6.4	
Drawing Crayons	8	7.1	
Choosing Doors	8	7.2	
Tall Basketball Players	8	7.3	
She Made Some Tarts	8	8.1	
Under One Condition	8	8.2	
Coin and Cube	8	8.3	
Soccer Games	8	8.4	
Math Talk: Fractions in Fractions	8	9.1	
A Possible Cure	8	9.2	
The Blood Bank	8	9.3	
Guppies	8	9.4	
Which One Doesn't Belong: Events	8	10.1	
Overtime Wins	8	10.2	
Genetic Testing	8	10.3	
Depends on the Weather	8	10.4	
Rock, Paper, Scissors	8	11.1	
Guess Which Card	8	11.2	