

## Pacing Guide

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### Unit 1: Prerequisite Skills

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- 1.1 Operations with Integers
- 1.2 Length Conversions in the Imperial System
- 1.3 Mass Conversions in the Imperial System
- 1.4 Capacity Conversions in the Imperial System
- 1.5 Length, Mass and Capacity Conversions in the Metric System
- 1.6 Estimation
- 1.7 Solving Multistep Equations and Using the Distributive Property
- 1.8 The Coordinate Plane
- Unit 1 Review
- Unit 1 Test

### Unit 1 Completion – 10 Days

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### Unit 2: Logic and Proofs

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- 2.1 Introduction to Logic and Proofs
- 2.2 Conditions and Sets
- 2.3 Conditional Statements
- 2.4 Equivalence Properties
- 2.5 Writing Proofs
- Unit 2 Review
- Unit 2 Test

### Unit 2 Completion – 7 Days

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## **Unit 3: Distance and Length**

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- 3.1 Introduction to Geometry
- 3.2 Segments, Rays and Length
- 3.3 Segment Addition Postulate
- 3.4 Overlapping Segments Theorem
- 3.5 Congruent Segments
- Unit 3 Review
- Unit 3 Test

**Unit 3 Completion – 7 Days**

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## **Unit 4: Angles, Lines and Transversals**

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- 4.1 Angles and Measure
- 4.2 Angle Addition Postulate
- 4.3 Congruent Angles
- 4.4 Angle Pairs
- 4.5 Lines, Planes and Transversals
- 4.6 Transversals and Angle Pairs
- 4.7 Transversals and Parallel Lines
- 4.8 Perpendicular Lines
- Unit 4 Review
- Unit 4 Test

**Unit 4 Completion – 10 Days**

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## Unit 5: Triangles

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- 5.1 Introduction to Triangles
- 5.2 Classifying Triangles by Side Length
- 5.3 Classifying Triangles by Angles
- 5.4 Triangle Sum Theorem
- 5.5 Exterior Angle Theorem
- 5.6 Ratio and Proportion
- 5.7 Similar Triangles
- 5.8 Using Similar Triangles to Solve Problems
- 5.9 Congruent Triangles
- 5.10 Congruent Triangles Part II
- 5.11 Pythagorean Theorem
- Unit 5 Review
- Unit 5 Test

**Unit 5 Completion – 13 Days**

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## Unit 6: Polygons

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- 6.1 Introduction to Polygons
- 6.2 Classification of Polygons
- 6.3 Quadrilaterals: Rectangles
- 6.4 Quadrilaterals: Parallelograms
- 6.5 Quadrilaterals: Trapezoids
- 6.6 Interior & Exterior Angles of Polygons
- 6.7 Similar Polygons
- Unit 6 Review
- Unit 6 Test

## Unit 6 Completion – 9 Days

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### Unit 7: Circles

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- 7.1 Introduction to Circles
- 7.2 Properties of Tangents
- 7.3 Properties of Tangents Part II
- 7.4 Properties of Tangents Part III
- 7.5 Arcs and Central Angles
- 7.6 Arc Addition Postulate and Arc Length
- Unit 7 Review
- Unit 7 Test

## Unit 7 Completion – 8 Days

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### Geometry Midterm

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- Midterm Exam Review – 3 Days
- Midterm Exam – 1 Day

## Midterm Completion – 4 Days

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### Unit 8: Perimeter

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- 8.1 Introduction to Perimeter
- 8.2 Perimeter of Triangles
- 8.3 Perimeter of Quadrilaterals
- 8.4 Perimeter of Polygons
- 8.5 Circumference of a Circle

8.6 Perimeter of Irregular Shapes

Unit 8 Review

Unit 8 Test

### **Unit 8 Completion – 8 Days**

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#### **Unit 9: Area**

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9.1 Introduction to Area

9.2 Area of Squares and Rectangles

9.3 Area of Triangles

9.4 Area of Parallelograms

9.5 Area of Trapezoids

9.6 Area of a Circle

9.7 Area of a Sector

9.8 Area of Regular Polygons

9.9 Area of Irregular Shapes

Unit 9 Review

Unit 9 Test

### **Unit 9 Completion – 11 Days**

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#### **Unit 10: Geometry in the Coordinate Plane**

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10.1 Introduction to Geometry in the Coordinate Plane

10.2 Distance in the Coordinate Plane

10.3 Midpoint Formula

10.4 Length of 2D Figures in the Coordinate Plane

10.5 Perimeter in the Coordinate Plane

10.6 Area in the Coordinate Plane

10.7 Equation of a Circle  
10.8 Calculating Slope with Rise/Run  
10.9 Calculating Slope with  $\Delta y / \Delta x$  and Intercepts  
10.10 Equation of a Line  
10.11 Parallel and Perpendicular Lines in the Coordinate Plane  
10.12 Quadrilaterals in the Coordinate Plane  
Unit 10 Review  
Unit 10 Test

### **Unit 10 Completion – 14 Days**

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### **Unit 11: Triangles Part II**

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11.1 Triangles and Altitude  
11.2 Triangles and Medians  
11.3 Triangles and Perpendicular Bisectors  
11.4 Triangles and Angle Bisectors  
11.5 Solving Systems of Equations by Substitution  
11.6 Solving Systems of Equations by Elimination  
11.7 The Orthocentre  
11.8 Triangles and the Centroid  
11.9 Triangles and the Circumcentre  
11.10 Triangles and the Incentre  
Unit 11 Review  
Unit 11 Test

### **Unit 11 Completion – 12 Days**

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## Unit 12: Circles Part II

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- 12.1 Arcs and Chords
- 12.2 Arcs and Chords Part II
- 12.3 Arcs and Chords Part III
- 12.4 Arcs and Chords Part IV
- 12.5 Inscribed Angles
- 12.6 Tangents, Secants and Angles
- 12.7 Tangents, Secants and Angles Part II
- 12.8 Tangents, Secants and Angles Part III
- Unit 12 Review
- Unit 12 Test

**Unit 12 Completion – 10 Days**

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## Unit 13: Transformations

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- 13.1 Introduction to Transformations
- 13.2 Translations
- 13.3 Reflections
- 13.4 Rotations
- 13.5 Dilations
- 13.6 Multiple Transformations & Applications
- Unit 13 Review
- Unit 13 Test

**Unit 13 Completion – 8 Days**

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## Unit 14: 3D Geometry and Volume

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- 14.1 Introduction to 3D Geometry
- 14.2 Volume of Rectangular Prisms
- 14.3 Volume of Other Prisms
- 14.4 Volume of Pyramids
- 14.5 Volume of Cylinders
- 14.6 Volume of Cones
- 14.7 Volume of a Sphere
- Unit 14 Review
- Unit 14 Test

**Unit 14 Completion – 9 Days**

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## Unit 15: 3D Geometry and Surface Area

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- 15.1 Introduction to Surface Area
- 15.2 Surface Area of Prisms
- 15.3 Surface Area of Pyramids
- 15.4 Surface Area of Cylinders
- 15.5 Surface Area of Cones
- 15.6 Surface Area of a Sphere
- Unit 15 Review
- Unit 15 Test

**Unit 15 Completion – 8 Days**



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## Geometry Final Exam

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Final Exam Review – 4 Days

Final Exam – 1 Day

**Final Exam Completion – 5 Days**

**Note:** One day is allotted for each lesson, unit test and unit review.

**Total: 153 Days**

30.6 five-day weeks or 38.25 four-day weeks