









# GEOMETRY

What will we teach your child?

## Arenas, Sprints, and Belts

Arena 1		Arena 2	
			
White Belt 1	White Belt 2	Yellow Belt 1	Yellow Belt 2
6 Weeks	6 Weeks	6 Weeks	6 Weeks
3 Months		3 Months	
Program Completion Time: 18 Months			
Arena 3		Arena 4	
			
Green Belt 1	Green Belt 2	Blue Belt 1	Blue Belt 2
6 Weeks	6 Weeks	6 Weeks	6 Weeks
3 Months		3 Months	

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White Belt 1	
#	Sprints (6 Weeks)
1	Line, Line Segments & Rays
2	Segments - Line Segments & Congruent Segments
3	Points, Lines & Planes
4	Geometric Definitions, Types Of Lines
5	Angles- Introduction & Types Of Angles
6	Measuring Angles- In Degrees/Using A Protractor
7	Review/Assessment



**White Belt 1**

White Belt 2	
#	Sprints (6 Weeks)
1	Constructing Angles
2	Angles In Circles
3	Constructing Different Types Of Angles
4	Vertical, Complimentary & Supplementary Angles

Yellow Belt 1	
#	Sprints (6 Weeks)
1	Missing Angles & Proofs with Transformations
2	Congruent Angles
3	Shapes - Introduction
4	Identify, Classify, Analyze Shapes
5	Equal Parts Of Rectangles & Circles
6	Partitioning Rectangles
7	Review/Assessment



**Yellow Belt 1**

Yellow Belt 2	
#	Sprints (6 Weeks)
1	Classifying Shapes by Line & Angle Types
2	Curves & Polygons
3	Angles With Polygons
4	Geometric Solids- 3D Shapes

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5	Angles Between Intersecting Lines
6	Parallel, Perpendicular Lines & Transversals
7	Review/Assessment



**White Belt 2**

5	Types Of triangles
6	Classifying Triangles By Angles & Side Lengths
7	Review/Assessment



**Yellow Belt 2**

Green Belt 1	
#	Sprints (6 Weeks)
1	Triangle Angles
2	Finding Angle-Measure Between Intersecting Lines
3	Triangle Inequality Theorem & Side Length Rules
4	Circumcenter Of A Triangle
5	Angle Bisectors
6	Review/Assessment



**Green Belt 1**

Blue Belt 1	
#	Sprints (6 Weeks)
1	Quadrants On The Coordinate Plane
2	Reflecting Points On The Coordinate Plane
3	Quadrilaterals On The Coordinate Plane
4	Drawing Polygons On The Coordinate Plane
5	Area By Counting Unit Squares
6	Review/Assessment



**Blue Belt 1**

Green Belt 2	
#	Sprints (6 Weeks)

Blue Belt 2	
#	Sprints (6 Weeks)

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1	Triangle Medians & Centroids
2	Altitudes
3	Quadrilaterals - Introduction & Types
4	Quadrilaterals - Proofs & Angles
5	Coordinate Plane - Introduction & Graph Points
6	Review/Assessment

1	Perimeter- Introduction, Unit Conversion & Metric System
2	Area of Rectangle & Parallelograms
3	Area Of Triangles & Finding Base, Height Of Triangles
4	Area Of Shapes On Grids
5	Area Of Trapezoids & Composite Figures
6	Review/Assessment



**Green Belt 2**



**Blue Belt 2**

Red Belt 1	
#	Sprints (6 Weeks)
1	Area & Circumference Of Circles
2	Area Of Diagonal-Generated Triangles
3	Volume Of Rectangular Prisms
4	Volume With Fractional lengths
5	Surface Area - Introduction & Using Nets
6	Volume Of Cones, Cylinders & Spheres

Black Belt 1	
#	Sprints (6 Weeks)
1	Transformations- Introduction & Identification
2	Translations - Introduction & Properties
3	Rotations & Reflections
4	Dilations - Introduction & Properties
5	Symmetry - Reflective & Rotational
6	Congruence - Triangle Congruence & Theorems

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7	Review/Assessment
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**Red Belt 1**

Red Belt 2	
#	Sprints (6 Weeks)
1	Surface & Volume Density
2	Cross Section Of 3D Objects
3	Heron's Formula
4	Pythagorean Theorem - Introduction
5	Pythagorean Theorem - Application & Proofs
6	Pythagorean Theorem & Distance Between Two Points
7	Review/Assessment



**Red Belt 2**

7	Review/Assessment
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**Black Belt 1**

Black Belt 2	
#	Sprints (6 Weeks)
1	Similarity - Definitions, Introductions & Application
2	Special Right Triangles, Trigonometric Ratios & Reciprocals
3	Application Of Trigonometric Ratio, Law Of Cosines & Sines
4	Circles- Arcs, Radians, Sectors & Inscribed Shapes/ Angles
5	Properties Of Tangents & Inscribed Triangles
6	Analytic Geometry
7	Constructions- Bisectors, Polygons, Circumcircles, Incircles, Tangents



**Black Belt 2**