BHS Integrated Math 2
Scope and Sequence

UNIT	STANDARDS	TIME
1) Statistics	S.IC.1, S.IC.2, S.IC.3, S.IC.4, S.IC.5, S.IC.6 S.ID.4, S.ID.6	3-4 weeks
2) Extending the Number System	N.RN.1, N.RN.2, N.RN.3 A.APR.1 A.SSE.1b, A.SSE.2 N.CN.1, N.CN.2	4-5 weeks
3) Working with Quadratic Equations	A.SSE.3a, A.SSE.3b A.CED.1, A.CED.2, A.CED.4 A.REI.1, A.REI.4, A.REI.7 N.CN.7	4-5 weeks
4) Modeling with Quadratic Functions	F.IF.4, F.IF.5, F.IF.6, F.IF.7a, F.IF.8a, F.IF.9 F.BF.1a, F.BF.1b A.CED.4	2-3 weeks
5) Comparing & Modeling Functions (Linear, Exponential, and Quadratic)	F.IF.6, F.IF.7a, F.IF.7e, F.IF.8a, F.IF.8b, F.IF.9 F.LE.1, F.LE.2, F.LE.3, F.LE.5 F.BF.3, F.BF.1a	4-5 weeks
6) Geometric Modeling	G.GMD.1, G.GMD.3, G.GMD.4 G.GPE.7 G.MG.1, G.MG.2, G.MG.3	4-5 weeks
7) Right Triangles & Trigonometry	G.SRT.1, G.SRT.2, G.SRT.3, G.SRT.5, G.SRT.6, G.SRT.7, G.SRT.8 N.VM.1, N.VM.2, N.VM.3, N.VM.4, N.VM.5	5 weeks
8) Circles	G.C.2, G.C.3, G.C.5 G.CO.12, G.CO.13 G.GPE.1	4 weeks

BHS Integrated Math 2 (Semester 1)

UNIT	STANDARDS	TIME
1) Statistics	S.IC.1 (Making inferences on a random sample) S.IC.2 (Using simulations) S.IC.3 (Surveys, experiments, observational studies), S.IC.4 (Population mean and margin of error) S.IC.5 (Randomized experiments) S.IC.6 (Evaluate reports based on data) S.ID.6 (Represent and describe 2 variable data relationship S.ID.4 (Fit a normal distribution)	3-4 weeks
2) Extending the Number System	N.RN.1(Properties of rational exponents) N.RN.2(Rational exponents and radical expressions) N.RN.3(Irrational and rational numbers) A.APR.1(Operating on polynomials) A.SSE.1b(Represent parts as a single entity) A.SSE.2 (Use structure to identify) N.CN.1(Definition of complex number) N.CN.2(Operations with i)	4-5 weeks
3) Working with Quadratic Equations	A.SSE.3a(Factor quadratics) A.SSE.3b(Complete the square) A.CED.1(Create and solve 1 variable equations) A.CED.2(Create and solve 2 variable equations) A.CED.4(Rearrange expressions) A.REI.1(Explain steps of solving) A.REI.4a(Solve by completing the square/quadratic formula) A.REI.4b(Solve by inspection) N.CN.7(quadratic formula with negative discriminates) A.REI.7(systems of quadratics and linear)	4-5 weeks
4) Modeling with Quadratic Functions	F.IF.4(key features) F.IF.5(relate domain to application) F.IF.6(average rate of change) F.IF.7a(key features) F.IF.8a(equivalent forms show what on a graph) F.IF.9 (compare different representations) F.BF.1a(write a function) F.BF.1b(combine standard functions arithmetically) A.CED.4 (rearrange equations)	2-3 weeks

BHS Integrated Math 2 (Semester 2)

UNIT	STANDARDS	TIME
5) Comparing & Modeling Functions (Linear, Exponential, and Quadratic)	F.IF.6(average rate of change) F.LE.3 (compare linear and quadratic) F.IF.7a(key features) F.IF.7e(exponential graphs) F.IF.8b(properties of exponents for exponential functions) F.IF.9 (compare different representations) F.BF.3(Algebraic Transformations) F.BF.1a(relationships between functions) F.IF.8a(different forms show what on graph) F.LE.1(distinguish linear vs exponential) F.LE.2(construct function from multiple representations) F.LE.5(interpret parameters in context)	4-5 weeks
6) Geometric Modeling	G.GMD.1(arguments for volume formula) G.GMD.3(use volume formulas) G.GPE.7 (Perimeter and area from coordinates) G.MG.1 (Model objects) G.MG.2 (Use density to model situations) G.MG.3 (Use geometry to design) G.GMD.4 (2-D to 3-D)	4-5 weeks
7) Right Triangles & Trigonometry	G.SRT.1(center & factor for dilation) G.SRT.2(similarity in terms of dilation) G.SRT.3(establish AA~) G.SRT.5(solve with similarity) G.SRT.6(understand sides are related to angles in right triangles) G.SRT.7(relationship sin and cos) G.SRT.8(apply trig ratios) N.VM.1(vector magnitude and direction) N.VM.2(subtract initial and terminal) N.VM.3(velocity problems) N.VM.4(add and subtract vectors) N.VM.5(multiply vector by scalar)	5 weeks
8) Circles	G.C.1(circles are similar) G.C.2(relationships in circles) G.C.3 (inscribed and circumscribe polygons) G.C.5 (arch length and sector area) G.CO.12 (constructions) G.CO.13(constructions) G.GPE.1 (circle formula)	4 weeks