OSSD Scope & Sequence: AGS 2

Scope & Sequence (S&S) is an overview of the skills and content covered in your curriculum at each class/instructional level. It provides an overview of the length of time (scope) and the order (sequence) in which key content will be taught. **Fully developed curriculum and unit plans will require more detail than the S&S provides.** This template is intended to help develop a S&S for one class/instructional level. Teachers are encouraged to work in teams to create shared S&S.

Grade Level(s): 10
Content Area and/or Course Title: Algebra, Geometry, Statistics - 2

Unit Title	Time/Term	Focus Standards and Unit Outcomes
	1 Session = 45 minutes	***Standards from the Vermont Content Areas, Mathematics, as presented by Carnegie Learning.***
Module 1 Reasoning with Shapes	**44 sessions Semester 1**	Students investigate geometric relationships and make conjectures. They prove several geometric theorems. Students use the theorems they proved to prove new theorems and verify properties, relying on identifying congruent triangles as a critical element of their deductive reasoning. Lesson **focus standards** and spaced review standards: N.RN.2, 8.F.1, G.CO.1, G.CO.2, G.CO.3, G.CO.5, G.CO.8, **G.CO.9, G.CO.10, G.CO.11,**G.CO.12, G.C.1,**G.C.2, G.C.3, G.C.4 (+)**, G.SRT.4, G.SRT.5, 8.G.5, 8.G.7, 8.G.8, G.GPE.5, G.GPE.7, 4.G.1, 4.G.3, 6.SP.5c
Module 2 Investigating Proportionality	**34 sessions Semester 1**	Students establish triangle similarity criteria. They explore side length ratios in similar right triangles to define trigonometric ratios. They use proportional reasoning to solve problems involving triangles, area of circles, and volume. Lesson **focus standards** and spaced review standards: G.CO.8, G.CO.9, G.CO.10, G.CO.11,G.CO.12, G.SRT.1, **G.SRT.1a, G.SRT.1b, G.SRT.2, G.SRT.3, G.SRT.4, G.SRT.5, G.SRT.6, G.SRT.7, G.SRT.8,** 8.G.7, 8.G.8, **G.C.1,** G.C.2, G.C.3, **G.C.5, G.GMD.1, G.GMD.3, G.GMD.4, G.MG.1, G.MG.2, G.MG.3,** G.GPE.5, **G.GPE.6**, G.GPE.7, 6.SP.5c

Module 3 Exploring Functions	**35 sessions Semester 1 & Semester 2**	Students investigate absolute value and piecewise functions. They revisit exponential functions and explore the relationship between rational exponents and radicals. Finally, they explore the characteristics of quadratic functions. Lesson **focus standards** and spaced review standards: **N.RN.1, N.RN.2, N.RN.3, A.SSE.1a, A.SSE.1b, A.SSE.3a, A.SSE.3c, A.APR.3, A.APR.4,** 7.EE.1, A.REI.3, **A.REI.10, A.REI.11, A.CED.1, A.CED.2, A.CED.3, A.CED.4,** F.IF.1, **F.IF.4, F.IF.5, F.IF.6, F.IF.7a, F.IF.8a, F.IF.8b, F.IF.9, F.BF.1a, F.BF.1b, F.BF.3, F.BF.4a**, **F.LE.1c,** F.LE.2, **F.LE.3, F.LE.5,** G.SRT.6, G.C.5, G.GPE.5, G.GMD.3
Module 4 Seeing Structure	**34 Sessions Semester 2**	Students solve quadratic equations. They apply what they know about inequalities, systems, regressions, and inverses to quadratic equations. Students translate between geometric descriptions of and the equations for circles and parabolas. Lesson **focus standards** and spaced review standards: **N.RN.2, N.RN.3, N.CN.1, N.CN.2, N.CN.7, N.CN.8(+), N.CN.9(+), A.SSE.1a, A.SSE.1b, A.SSE.2, A.SSE.3a, A.SSE.3b,** A.SSE.3c, **A.APR.1, A.CED.1, A.CED.2, A.CED.3,** 7.EE.4, A.REI.3, **A.REI.4, A.REI.4a, A.REI.4b, A.REI.6, A.REI.7, A.REI.10, A.REI.11,** F.IF.2, F.IF.4, F.IF.7a, **F.IF.7b,** F.IF.8, **F.IF.8a**, F.IF.9, F.BF.3, **F.BF.4a, F.BF.4d(+)**, **F.TF.8,** G.SRT.5, G.SRT.6, **G.C.1, G.C.5, G.GPE.1, G.GPE.2, S.ID.6a**
Module 5 Making Informed Decisions	**19 sessions Semester 2 or offered in Summer**	Students differentiate between independent and dependent events and calculate compound probabilities. They use permutations and combinations to solve problems. Lesson **focus standards** and spaced review standards: F.TF.8, G.SRT.8, G.GPE.1, G.GPE.3, G.GMD.3, **S.CP.1, S.CP.2, S.CP.3, S.CP.4, S.CP.5, S.CP.6, S.CP.7, S.CP.8(+), S.CP.9(+),** 7.SP.8, 7.SP.8b, **S.MD.6(+), S.MD.7(+)**