CPS Mathematics Department
SY 20-21 Grade 8 Scope and Sequence

In grade 8, instructional time should focus on three critical areas:

(1) formulating and reasoning about expressions and equations, including modeling an association in bivariate data with a linear equation and solving linear equations and systems of linear equations;

(2) grasping the concept of a function and using functions to describe quantitative relationships; and

(3) analyzing two- and three-dimensional space and figures using distance, angle, similarity, and congruence, and understanding and applying the Pythagorean Theorem.

Unit	Title * Grade 8 Prioritized Units	Number of Days	Dates	Standards * Unit Introducing HS Algebra I Standards **Prioritized Standards are Bolded**	
A	**Introductory Unit 0**	2 weeks	Sept 16-Sept 30	Community Building, Norms, and Developing Math Identity	
B	**GRADE 8, UNIT 1 Rigid Transformations and Congruence**	4-5 weeks	Oct 1-Oct 30	8.G.A, 8.G.A.1.a, 8.G.A.1.c, 8.G.A.3,	8.G.A.1, 8.G.A.1.b, 8.G.A.2, 8.G.A.5
C	**GRADE 8, IM UNIT 2 Dilations, Similarity and Introducing Slope**	4-5 weeks	Nov 2-Dec 4	8.G.A, 8.G.A.3, 8.G.A.5,	8.G.A.2, 8.G.A.4, **8.EE.B.6**
D	**GRADE 8, IM UNIT 3 Linear Relationships**	4-5 weeks	Dec 7-Jan 8	**8.EE.B,** **8.EE.B.6,** **8.EE.C.8.a,**	**8.EE.B.5,** 8.EE.C, 8.G.A.1
E	**GRADE 8, IM UNIT 4 Linear Equations and Linear systems**	5 weeks	Jan 11-Feb 12	8.EE.C, **8.EE.C.7.a,** **8.EE.C.8,** **8.EE.C.8.b**	**8.EE.C.7,** **8.EE.C.7.b,** **8.EE.C.8.a,**
F	**ALGEBRA UNIT 2*: Linear Equations, Inequalities and Systems**	1 week	Feb 22-Feb 26	HSA-CED.A.1 HSA-CED.A.3 HSA-REI.A HSA-REI.B.3 HSA-REI.C.6 HSA-REI.D.12 HSF-LE.A.2	HSA-CED.A.2 HSA-CED.A.4 HSA-REI.A.1 HSA-REI.C.5 HSA-REI.D.10 HSA-SSE.A.1 HSN-Q.A.2

G	**GRADE 8, UNIT 5 Functions and Volume**	3 weeks	Mar 1-Mar 19	**8.F.A, 8.F.A.2, 8.F.B, 8.F.B.5,** 8.G.C.9	**8.F.A.1, 8.F.A.3, 8.F.B.4,** 8.G.C,
H	**ALGEBRA Unit 4: Functions**	1 week	Mar 19-Mar 26	HSA-CED.A.4, HSA-REI.D.11, HSF-BF.A.1, HSF-IF.A.1, HSF-IF.B, HSF-BF.B.4.a, HSF-IF.B.6, HSF-IF.C.7, HSN-Q.A, HSS-ID.B.6, HSS-ID.B.6.c	HSA-REI.A.1, HSA-SSE.A.1, HSF-BF.A.1.a, HSF-IF.A.2, HSF-IF.B.4, HSF-IF.B.5, HSF-IF.C, HSF-IF.C.7.b, HSN-Q.A.2, HSS-ID.B.6.a,
I	**GRADE 8, UNIT 7 Exponents and Scientific Notation**	2-3 weeks	Mar 29-Apr 16	**8.EE.A.1,** 8.EE.A.3,	8.EE.A.4
J	**GRADE 8, UNIT 8 Pythagorean Theorem and Irrational Numbers**	4-5	Apr 26-May 28	8.NS.A, 8.NS.A.2, **8.EE.A.2, 8.G.B, 8.G.B.7,**	8.NS.A.1, 8.EE.A, **8.F.B, 8.G.B.6, 8.G.B.8**
K	**GRADE 8, UNIT 6 Associations in Data**	2 weeks	May 31 - June 11	8.SP.A, 8.SP.A.1, 8.SP.A.2,	8.SP.A.3, 8.SP.A.4
L	**ALGEBRA Unit 3 Two Variable Statistics**	1 week	June 14-June 18	HSS-ID.A HSS-ID.B.6 HSS-ID.B.6.b HSS-ID.C.7 HSS-ID.C.9	HSS-ID.B.5 HSS-ID.B.6.a HSS-ID.B.6.c HSS-ID.C.8