

OREGON FOCUS STAGE 3 COMMON CORE STATE STANDARDS MAP AND ALIGNMENT

The following scope and sequence document aligns the Stage 3 Oregon Focus on Math ©2008 series to the 2010 Common Core State Standards (CCSS). Use the key below to determine which lessons are pre-requisites, grade-level standards or extensions. The following pages describe each unit by listing lesson titles and recommended pacing based on mathematics every day.

Linear Equations	
Lesson	CCSS Alignment
1	7.NS.3
2	6.EE.2/7.EE.1
3	7.EE.1
4	6.EE.7
5	8.EE.7b
6	8.EE.7b
3-A	8.EE.7a
7	8.SP.1
8	8.F.4
9	8.F.4
10	8.F.4
11	8.F.4
12	8.EE.6/8.F.3
13	8.EE.6/8.F.4
14	8.EE.6
15	8.EE.6
3-B	8.EE.5/8.F.2
16	8.F.3
17	8.F.4
18	8.F.4
19	HS.A-SSE.3
20	HS.A-SSE.3
3-C	8.F.1
21	8.EE.7/8.F.4
22	8.EE.8a
23	8.EE.8
24	8.EE.8
25	8.EE.8
26	8.EE.8
27	8.EE.8
28	8.EE.8
3-D	8.NS.1
3-E	8.EE.1
3-F	8.EE.1
3-G	8.EE.3
3-H	8.EE.4

Data Analysis	
Lesson	CCSS Alignment
1*	6.RP.1
2*	7.RP.2/7.RP.E
3*	7.RP.3
4*	7.RP.3
5*	7.RP.3
6*	6.SP.5
7*	6.SP.5
8*	6.SP.5
9*	HS.S-ID.3
10*	HS.S-ID.3
11*	HS.S-ID.3
12	6.SP.4
13*	HS.S-ID.3
14*	6.SP.4
15*	6.SP.4/7.RP.3
16*	6.SP.4
17*	6.SP.4/7.RP.3
18*	6.SP.4
19*	6.SP.4/7.RP.3
20	8.SP.1
21	8.SP.1/8.SP.3
22	8.SP.1/8.SP.2/8.SP.3
23	8.SP.1/8.SP.2/8.SP.3
24	6.SP.4/8.SP.2/8.SP.4
25	8.SP.1
3-I	8.SP.4

Lines & Angles	
Lesson	CCSS Alignment
1	4.MD.5/4.MD.6
2	4.MD.5/4.MD.6/4.MD.7
3	7.G.5
4	7.G.5
5	8.G.5
6	8.G.5
7	5.G.4
8	8.G.5
9	8.G.5
10	8.G.2/8.G.4
11	8.G.5
12	Not in Standards
13	Not in Standards
14	8.EE.2
15	8.EE.2/8.NS.1
16	8.G.6/8.G.7
17	8.G.6/8.G.7
18	8.G.6/8.G.7
19	8.G.8
20	8.G.8
3-J	8.EE.2
3-K	8.G.9
3-L	8.G.9
3-M	8.G.9
3-N	8.G.1/8.G.3
3-O	8.G.1/8.G.2/8.G.3
3-P	8.G.1/8.G.2/8.G.3/8.G.4

Key

	Prior Grade-Level Content (Pre-Requisite)
	CCSS Grade-Level Content (Original Texts)
	CCSS Grade-Level Content (Companion Text)
	Future Grade-Level Content (Extension)

- ★ Recommended Lessons to Omit in Order to Address Grade-Level CCSS Content
- Recommended Time for Summative Assessment

STAGE 3 COMMON CORE SCOPE AND SEQUENCE

The Common Core scope and sequence accounts for 140 class periods for instruction, targeted interventions and assessments. This allows for any remaining days to be used for additional components which may include (1) beginning of the year review and team building, (2) Tic-Tac-Toe extensions, (3) state test review and (4) state testing.

Unit 1 – Expressions and Equations

Oregon Focus on Linear Equations Block 1	Lesson	Lesson Title	CCSS Alignment	Recommended Pacing
	1	Order of Operations	7.NS.3	Including assessments and targeted interventions: 15 days
	2	Evaluating Expressions	6.EE.2/7.EE.1	
	3	The Distributive Property	7.EE.1	
	4	Solving One-Step Equations	6.EE.7	
	5	Solving Two-Step Equations	8.EE.7b	
	6	Solving Multi-Step Equations	8.EE.7b	
	3-A	Solutions to Linear Equations	8.EE.7a	
7	The Coordinate Plane and Scatter Plots	8.SP.1		

Unit 2 – Sequences and Slope

Oregon Focus on Linear Equations Block 2	Lesson	Lesson Title	CCSS Alignment	Recommended Pacing
	8	Recursive Routines	8.F.4	Including assessments and targeted interventions: 12 days
	9	Linear Plots	8.F.4	
	10	Recursive Routine Applications	8.F.4	
	11	Rate of Change	8.F.4	
	12	Recursive Routines to Equations	8.EE.6/8.F.3	
	13	Input-Output Tables from Equations	8.EE.6/8.F.4	
	14	Calculating Slope from Graphs	8.EE.6	
15	The Slope Formula	8.EE.6		

Unit 3 – Using Linear Equations

Oregon Focus on Linear Equations Block 3	Lesson	Lesson Title	CCSS Alignment	Recommended Pacing
	3-B	Direct Variation Tables and Slope	8.EE.5/8.F.2	Including assessments and targeted interventions: 15 days
	16	Graphing Using Slope-Intercept Form	8.F.3	
	17	Writing Linear Equations for Graphs	8.F.4	
	18	Writing Linear Equations from Key Information	8.F.4	
	19	Different Forms of Linear Equations	HS.A-SSE.3	
	20	More Graphing Linear Equations	HS.A-SSE.3	
	3-C	Understanding Functions	8.F.1	
	21	Introduction to Non-Linear Functions	8.EE.7/8.F.4	

Unit 4 – Systems of Equations

Oregon Focus on Linear Equations Block 4	Lesson	Lesson Title	CCSS Alignment	Recommended Pacing
	22	Parallel, Intersecting or the Same Line	8.EE.8a	Including assessments and targeted interventions: 16 days
	23	Solving Systems by Graphing	8.EE.8	
	24	Solving Systems Using Tables	8.EE.8	
	25	Solving Systems by Substitution	8.EE.8	
	26	Solving Systems Using Elimination	8.EE.8	
	27	Choosing the Best Method	8.EE.8	
	28	Applications of Systems of Equations	8.EE.8	

Unit 5 – Exponent Properties

Stage 3 Companion Text	Lesson	Lesson Title	CCSS Alignment	Recommended Pacing
	3-D	Converting Repeated Decimals to Fractions	8.NS.1	Including assessments and targeted interventions: 10 days
	3-E	Multiplication Properties of Exponents	8.EE.1	
	3-F	Division Properties of Exponents	8.EE.1	
	3-G	Scientific Notation	8.EE.3	
	3-H	Applications of Scientific Notation	8.EE.4	

Unit 6 – Two-Variable Data

Oregon Focus on Data Analysis Blocks 2 and 4	Lesson	Lesson Title	CCSS Alignment	Recommended Pacing
	20	Scatter Plots and Correlation	8.SP.1	Including assessments and targeted interventions: 14 days
	21	Predicting with Lines of Best Fit	8.SP.1/8.SP.3	
	12	Five-Number Summaries of Data	6.SP.4	
	22	Q-Points and Lines of Best Fit	8.SP.1/8.SP.2/8.SP.3	
	23	Predicting with Best Fit Equations	8.SP.1/8.SP.2/8.SP.3	
	24	Choosing Appropriate Data Displays	6.SP.4/8.SP.2/8.SP.4	
	25	Using Data and Graphs to Persuade	8.SP.1	
3-I	Bivariate Data and Frequency Tables	8.SP.4		

Unit 7 – Angle Pairs

Oregon Focus on Lines & Angles Block 1	Lesson	Lesson Title	CCSS Alignment	Recommended Pacing
	1	Measuring and Naming Angles	4.MD.5/4.MD.6	Including assessments and targeted interventions: 10 days
	2	Classifying Angles	4.MD.5/4.MD.6/4.MD.7	
	3	Complementary and Supplementary Angles	7.G.5	
	4	Vertical Angles	7.G.5	
	5	Alternate Exterior and Interior Angles	8.G.5	
	6	Corresponding and Same Side Interior Angles	8.G.5	

Unit 8 – Triangles and Quadrilaterals

Oregon Focus on Lines & Angles Block 2	Lesson	Lesson Title	CCSS Alignment	Recommended Pacing
	7	Classifying Triangles	5.G.4	Including assessments and targeted interventions: 12 days
	8	Angle Sum of a Triangle	8.G.5	
	9	Special Triangles	8.G.5	
	10	Congruent and Similar Triangles	8.G.2/8.G.4	
	11	Parallel Lines and Similar Triangles	8.G.5	
	12	Angle Sum of a Quadrilateral	NA	
13	Special Quadrilaterals	NA		

Unit 9 – The Pythagorean Theorem

Oregon Focus on Lines & Angles Block 3	Lesson	Lesson Title	CCSS Alignment	Recommended Pacing
	14	Perfect Squares	8.EE.2	Including assessments and targeted interventions: 14 days
	15	Estimating Square Roots	8.EE.2/8.NS.1	
	16	The Pythagorean Theorem	8.G.6/8.G.7	
	17	Converse of the Pythagorean Theorem	8.G.6/8.G.7	
	18	Applying the Pythagorean Theorem	8.G.6/8.G.7	
	19	Distance on the Coordinate Plane	8.G.8	
	20	The Distance Formula	8.G.8	

Unit 10 – Volume and Transformations

Stage 3 Companion Text	Lesson	Lesson Title	CCSS Alignment	Recommended Pacing
	3-J	Exponents and Roots	8.EE.2	Including assessments and targeted interventions: 12 days
	3-K	Volume of Cylinders	8.G.9	
	3-L	Volume of Cones	8.G.9	
	3-M	Volume of Spheres	8.G.9	
	3-N	Transformations	8.G.1/8.G.3	
	3-O	Transformations and Congruence	8.G.1/8.G.2/8.G.3	
3-P	Composition of Transformations	8.G.1/8.G.2/8.G.3/8.G.4		

CCSSM COMPANION TEXT

STAGE 3

LESSON 3-A	SOLUTIONS TO LINEAR EQUATIONS -----	2
	EXPLORE! WHAT WORKS?	
LESSON 3-B	DIRECT VARIATION TABLES AND SLOPE -----	5
LESSON 3-C	UNDERSTANDING FUNCTIONS -----	11
	EXPLORE! DOG YEARS	
LESSON 3-D	CONVERTING REPEATING DECIMALS TO FRACTIONS -----	17
LESSON 3-E	MULTIPLICATION PROPERTIES OF EXPONENTS -----	20
	EXPLORE! EXPAND IT	
LESSON 3-F	DIVISION PROPERTIES OF EXPONENTS -----	24
	EXPLORE! GOING NEGATIVE	
LESSON 3-G	SCIENTIFIC NOTATION -----	28
LESSON 3-H	APPLICATIONS OF SCIENTIFIC NOTATION -----	32
	EXPLORE! POPULATIONS	
LESSON 3-I	BIVARIATE DATA AND FREQUENCY TABLES -----	37
LESSON 3-J	EXPONENTS AND ROOTS -----	43
LESSON 3-K	VOLUME OF CYLINDERS -----	48
LESSON 3-L	VOLUME OF CONES -----	52
	EXPLORE! CONES IN A CYLINDER	
LESSON 3-M	VOLUME OF SPHERES -----	56
LESSON 3-N	TRANSFORMATIONS -----	60
LESSON 3-O	TRANSFORMATIONS AND CONGRUENCE -----	65
	EXPLORE! CONGRUENT OR SIMILAR?	
LESSON 3-P	COMPOSITION OF TRANSFORMATIONS -----	69
	EXPLORE! ON A TRIP	
	REVIEW -----	74
	ACKNOWLEDGEMENTS -----	83
	ENGLISH/SPANISH GLOSSARY -----	84
	SELECTED ANSWERS -----	119
	INDEX -----	122