

**CORRELATION OF MATHEMATICS:
OHIO ACADEMIC STANDARDS ([WOLFSON](#) BENCHMARK/INDICATOR STATEMENTS)
TO COMMON CORE (Grade/Domain/Cluster) – Grade 7**

7 th Grade Mathematics Benchmark/Indicator Quizzes Table of Contents		Common Core					
Standard: Number, Number Sense and Operations		Grade Levels: Domain, Cluster					
Benchmark/Indicator/Description	Page	4	5	6	7	8	HS
E 4a Order of Operations Involving Integers and Fractions	1		OA.1		MP.2		
E 4b Order of Operations Involving Integers and Decimals	2		OA.1		MP.2		
G 9a Using Absolute Value Concepts	3		OA.1		NS		
G 9b Using Exponent Concepts	4	OA.2	OA.1				
G 9c Using Square Root Concepts	5	OA.2	OA.1				
H 5 Effects of Operations on Integers	6	NO-D	NO.2 NO-F.1	NS.1 NS.2	NS		
H 8 Computing with Percents and Integers	7	NO-D	NO.2 NO-F.1	NS.1 NS.2	MP.2 NS, RP		
I 6 Simplifying and Solving Problems Involving Integers	8	NO-D NO-F.2	NO.2 NO-F.1		MP.2 NS, RP		
I 7 Using the Appropriate Form of a Rational Number	9	NO-D NO-F.2	NO.2 NO-F.1		RP NS		
I 9 Using Absolute Value, Exponents, and Square Roots	10	NO-D NO-F.2	NO.2 NO-F.1		RP NS		

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TO COMMON CORE (Grade/Domain/Cluster) – Grade 7**

Standard: Measurement		COMMON CORE						
		Grade Levels:				Domain . Cluster		
Benchmark/ Indicator/Description	Page	3	4	5	6	7	8	HS
A 1a	Selecting Appropriate U.S. Customary Units	11					EE.2	
A 1b	Selecting Appropriate Metric Units	12					EE.2	
B 2a	Converting U.S. Customary Units for Area and Volume	13		M.1	M.1	RP		
B 2b	Converting Metric Units for Area and Volume	14		M.1	M.1	RP		
C 6a	Developing Formulas to Find the Area of a Trapezoid	15		M.2	M.3	G		
C 6b	Developing Formulas to Find the Volume of a Cylinder	16		M.2	M.3	G		
C 6c	Developing Formulas to Find the Volume of a Rectangular Prism	17		M.2	M.3	G		
C 7a	Finding Areas of Composite Figures	18		M.2	M.3	G	G.2	
C 7b	Finding Areas of Cutout and Shaded Figures	19		M.2	M.3	G	G.2	
D 3	Increasing Precision of a Measurement Tool	20					MP	
E 4	Using Proportions and Scale Factors	21		M.1	M.3		RP	
F 9a	Effects of Changing Measurements of a Cylinder on Surface Area and Volume	22					RP G.2	G.9
F 9b	Effects of Changing Measurements of a Rectangular Prism on Surface Area and Volume	23					G.1 G.2 RP	
G 8	Differences between Surface Area and Volume	24	M.4		M.3		G.1 G.2	

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Standard: Geometry and Spatial Sense		COMMON CORE				
		Grade Levels:			Domain . Cluster	
Benchmark/Indicator/Description	Page	5	6	7	8	HS
D 2a Quadrilateral Subsets	25	G.2				
D 2b Quadrilateral Properties	26	G.2				
E 1 Proportions in Similar Triangles	27			RP	G.1	
E 6 Scale Factors in Similar Figures	28			RP	G.1	
F 4 Congruent Triangles	29				G.1	Geometry: Congruence and Similarity
F 7 Line and Rotational Symmetry	30				G.1	Geometry: Congruence and Similarity
G 3a Pythagorean Theorem	31			G.2		
G 3b Sum of the Angles of a Triangle	32			G.2		
G 5 Missing Angles and Sides	33			G.2		
H 8 Translations, Reflections, Rotations, and Dilations	34		NS.3		G.1	Geometry: Congruence - .1; Similarity - .1
I 9 Three-Dimensional Drawings	35			G.1		
J 1 Proportional Reasoning	36			G.1 RP		Geometry: Similarity - .1
J 6 Solving Problems Using Scale Factors	37			G.1 RP		Geometry: Similarity - .1

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TO COMMON CORE (Grade/Domain/Cluster) – Grade 7**

Standard: Patterns, Functions and Algebra			COMMON CORE					
			Grade Levels:			Domain . Cluster		
Benchmark/Indicator/Description	Page	4	5	6	7	8	HS	
B 1	Representing and Analyzing Patterns, Rules, and Functions	38	OA.3		EE.3	MP.2 MP.4		MP: Reason abstractly and quantitatively: Model with Math;
B 2	Describing How to Find the Next Term in a Pattern	39	OA.3		EE.3	MP.2 MP.4		MP: Reason abstractly and quantitatively: Model with Math;
D 9	Using Variables in a Variety of Ways	40			EE.2 EE.3	EE.1 MP.6		MP: Attend to precision
E 3	Recognizing Linear and Nonlinear Patterns	41		OA.2	NS.3	MP.3	F.1 F.2	MP: Construct viable arguments
F 5	Representing a Linear Equation by Plotting Points	42			EE.3	MP.2, 3 MP.7, 8	F.2	Algebra Reasoning-.5; MP – Reason abstractly and quantitatively; MP – Construct viable arguments; MP – Look for and make use of structure MP – Look for and express regularity in repeated reasoning.
F 6	Representing Inequalities	43			EE.3	MP.2, 3 MP.7, 8	F.2	Algebra/Reasoning-.5; MP – Reason abstractly and quantitatively; MP – Construct viable arguments; MP – Look for and make use of structure; MP – Look for and express regularity in repeated reasoning.
G 1	Representing Algebraic Expressions	44			EE.2	EE.1 MP.3 MP.7 MP.8		MP – Construct viable arguments; MP – Look for and make use of structure; MP – Look for and express regularity in repeated reasoning.
G 7	Recognizing Equivalent Algebraic Expressions	45			EE.2	EE.1 MP.3 MP.7 MP.8		MP – Construct viable arguments; MP – Look for and make use of structure; MP – Look for and express regularity in repeated reasoning.
H 4	Solving and Representing Linear Equations and Inequalities	46				EE MP.4 MP.6	EE.2 F.1	Algebra/Reasoning-.1 MP – Model with math: MP – Attend to precision

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I	4	Explaining the Use of Inverse Operations	47				RP		Algebra/Reasoning- .1 MP – Reason abstractly and quantitatively;
J	8	Using Formulas to Solve Problems	48		M.3	G	MP.6		MP – Attend to precision
J	M-6	Using Formulas to Solve Area and Volume Problems	49		M.3	G	MP.6		MP – Attend to precision
J	GSS-3	Using the Pythagorean Theorem and the Triangle Angle Sum	50		M.3	G	MP.6		MP – Attend to precision
K	5	Graphing a Linear Equation by Plotting Points	51				MP.4 MP.6		Functions: interpreting - .3 MP – Model with math; MP – Attend to precision;
K	6	Graphing Linear Equations	52				MP.4 MP.6		Functions: interpreting - .3 MP – Model with math; MP – Attend to precision;
L	10	Analyzing How Changing One Variable Affects Another	53						
M	11	Using Technology to Analyze Change	54					EE.2	

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Standard: Data Analysis & Probability		COMMON CORE			
		Grade Levels:			Domain . Cluster
Benchmark/Indicator/Description	Page	6	7	8	HS
A 1a	Box-and-Whisker Plots	55	SP.2		Statistics & Probability Interpreting - .1
A 1b	Stem-and-Leaf Plots	56	SP.2		Statistics & Probability Interpreting - .1
A 1c	Line Graphs, Histograms, and Circle Graphs	57	SP.2		Statistics & Probability Interpreting - .1
B 4	Opposing Arguments	58	SP.1		
D 5	Comparing Data and Sample Selection	59		SP.2 SP.3	
E 2	Graphical Representations	60	SP.2	SP.3	
F 3	Measures of Center and Spread	61		SP.1 SP.2	Statistics & Probability Interpreting - .1
G 2	Evaluating Conjectures and Predictions	62		SP.1 SP.2	
G 6	Misuses of Statistical Data	63		SP.2	
I 7a	Probability of Compound Events Using Organized Lists	64			Statistics & Probability: Conditional Prob. - .2
I 7b	Probability of Compound Events Using Tree Diagrams	65			Statistics & Probability: Conditional Prob. - .2
I 7c	Probability of Compound Events Using Area Models	66			Statistics & Probability: Conditional Prob. - .2
K 8	Experimental and Theoretical Probability	67		SP.3	Statistics & Probability: Using Probability - .2

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LESSONS WITH GRADE 7 INDICATORS NOT TESTED UNTIL GRADE 8				COMMON CORE			
Standard: Number, Number Sense and Operations				Grade Levels:		Domain . Cluster	
Benchmark/Indicator/Description			Page	6	7	8	HS
A	1	Large Numbers and Scientific Notation	68			EE.1	
B	3	Rational and Irrational Numbers	69			EE.2 NS	
F	5	Effects of Operations with Integers	70		NS	EE	
I	2	Zero and Negative Exponents	71			EE	
Standard: Measurement							
A	5	Analyzing Problem Situations	72		G.2		
Standard: Data Analysis and Probability							
I	8	Experimental and Theoretical Probability	73		SP.3		
Answer Key			74 – 76				