

**Mathematics Alignment At A Glance  
Version 12.05**

**Eighth Grade**

**Key:**

\*IV.1.2 represents Strand IV, Standard 1, Benchmark 2 of the MCF

GLCE Code	Standards and Benchmarks	GLCE Code	Standards and Benchmarks
<b>Number &amp; Operations</b>		<b>Geometry</b>	
<b>Understand real number concepts</b>		Understand and use the Pythagorean Theorem	
N.ME.08.01	*IV.1.2, IV.3.3	G.GS.08.01	II.1.7
N.ME.08.02	IV.1.2, IV.3.3	G.LO.08.02	II.2.4
N.ME.08.03	IV.2.1, IV.2.2, IV.3.1, IV.1.2	<b>Solve problems about geometric figures</b>	
N.ME.08.04	IV.2.4, IV.3.1	G.SR.08.03	II.1.2, II.3.5
N.FL.08.05	IV.2.4, IV.2.5	G.SR.08.04	II.1.5, II.3.5
N.FL.08.06	IV.2.4	G.SR.08.05	II.1.2, II.1.7, II.3.5
<b>Solve problems</b>		<b>Understand concepts of volume and surface area, apply formulas</b>	
N.MR.08.07	V.3.2	G.SR.08.06	II.3.5
N.MR.08.08	IV.2.5	G.SR.08.07	II.1.2, II.3.5
N.FL.08.09	IV.2.5, IV.3.5	<b>Visualize solids</b>	
N.MR.08.10	IV.2.5, IV.3.5	G.SR.08.08	II.1.4, II.1.7
N.FL.08.11	IV.2.5, IV.3.5	<b>Understand and apply concepts of transformation and symmetry</b>	
<b>ALGEBRA</b>			
<b>Understand the concept of non-linear functions using basic examples</b>		G.TR.08.09	II.1.6, II.2.3
A.RP.08.01	I.1.2, I.1.4, I.2.5, IV.3.4	G.TR.08.10	II.1.6, II.2.2, II.2.3
A.PA.08.02	I.1.4, I.2.3, IV.3.2	<b>Data &amp; Probability</b>	
A.PA.08.03	I.2.5	<b>Draw, explain, and justify conclusions based on data</b>	
A.RP.08.04		D.AN.08.01	III.2.2
A.RP.08.05		D.AN.08.02	III.2.4
A.RP.08.06		<b>Understand probability concepts for simple and compound events</b>	
<b>Recognize, represent, and apply common formulas</b>		D.PR.08.03	VI.1.5
A.FO.08.07		D.PR.08.04	VI.1.3, VI.2.1
A.FO.08.08		D.PR.08.05	
A.FO.08.09		D.PR.08.06	VI.1.3
<b>Understand solutions and solve equations, simultaneous equations, and linear inequalities</b>			
A.FO.08.10	V.2.1, V.2.2		
A.FO.08.11	V.2.2		
A.FO.08.12	V.2.1, V.2.2		
A.FO.08.13	V.2.2		

**GRADE LEVEL CONTENT EXPECTATIONS KEY:**

**N** = Number & Operations

**A** = Algebra

**M** = Measurement

**G** = Geometry

**D** = Data & Probability

ME = Meaning, notation, place value, & comparisons

MR = Number relationships & Meaning of operations

FL = Fluency with operations and estimation

PA = Patterns, relations, functions, & change

RP = Representation

FO = Formulas, expressions, equations, & inequalities UN

TE = Techniques & formulas for measurement

PS = Problem solving for measurement

SR = Spatial reasoning & geometric modeling

GS = Geometric shape, properties, & mathematical arguments

LO = Location & special relationships

TR = Transformation & symmetry

D = Data representation

AN = Data interpretation & analysis

PR = Probability