

## Mathematics Alignment At A Glance Version 12.05

### Seventh Grade

**Key:**

\*IV.3.2 represents Strand IV, Standard 3, 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 derived quantities</b>  |   | <b>Draw and construct geometric objects</b>                                   |                          |         |         |
| N.MR.07.02  | IV.2.5, IV.3.2, IV.3.5, V.1.4               | G.SR.07.02  | II.1.5, II.3.1           |         |         |
| <b>Understand and solve problems involving rates, ratios, and proportions</b>                   |   | <b>Understand the concept of similar polygons, and solve related problems</b> |                          |         |         |
| N.FL.07.03  | I.2.1, I.2.3, IV.3.5                        | G.TR.07.03  | II.3.5                   |         |         |
| N.MR.07.04  | IV.3.2                                      | G.TR.07.04  | II.3.5                   |         |         |
| N.FL.07.05  | I.2.1, I.2.3, II.3.5, V.1.4, IV.2.5, IV.3.5 | G.TR.07.05  | II.3.5                   |         |         |
|   |   | G.TR.07.06  | II.3.4, II.3.5           |         |         |
| <b>Recognize irrational numbers</b>   |   |   |                          |         |         |
| N.MR.07.06  | IV.1.2, IV.2.4, IV.3.4                      | <b>DATA &amp; PROBABILITY</b>   |                          |         |         |
| <b>Compute with rational numbers</b>  |   | <b>Represent data and interpret</b>   |                          |         |         |
| N.FL.07.07  | V.1.4                                       | D.RE.07.01  | III.1.2                  | III.1.3 | III.2.3 |
| N.FL.07.08  | V.1.2                                       | D.AN.07.02  | III.1.2                  | III.1.3 | III.2.3 |
| N.FL.07.09  | IV.2.4, V.1.2, V.1.4                        | <b>Compute statistics about datasets</b>                                      |                          |         |         |
| <b>ALGEBRA</b>  |   | D.AN.07.03  |                          |         |         |
| <b>Understand and apply directly proportional relationships; relate to linear relationships</b> |   | D.AN.07.04  | III.2.2                  |         |         |
| A.PA.07.01  | I.1.4, IV.3.2                               |   |                          |         |         |
| A.RP.07.02  | I.1.2, I.1.4, I.2.4, IV.3.2                 |   |                          |         |         |
| A.PA.07.03  | I.2.1, IV.3.2                               |   |                          |         |         |
| A.PA.07.04  | II.1.7, IV.3.5, V.2.4, V.2.5                |   |                          |         |         |
| A.PA.07.05  | II.1.7, IV.3.2                              |   |                          |         |         |
| <b>Understand and represent linear functions</b>  |   |   |                          |         |         |
| A.PA.07.06  | IV.3.2                                      |   |                          |         |         |
| A.PA.07.07  | IV.3.2, V.2.4                               |   |                          |         |         |
| A.FO.07.08  | V.2.3                                       |   |                          |         |         |
| <b>Understand and solve problems about inversely proportional relationships</b>                 |   |   |                          |         |         |
| A.PA.07.09  | I.2.5                                       |   |                          |         |         |
| A.RP.07.10  | I.2.5                                       |   |                          |         |         |
| <b>Apply basic properties of real numbers in algebraic contexts</b>                             |   |   |                          |         |         |
| A.PA.07.11  | IV.1.3, V.1.3                               |   |                          |         |         |
| <b>Combine algebraic expressions and solve equations</b>  |   |   |                          |         |         |
| A.FO.07.12  | IV.1.3, V.2.1                               |   |                          |         |         |
| A.FO.07.13  | V.2.3                                       |   |                          |         |         |

**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 = Units/systems of measurement

TE = Techniques & formulas for measurement

PS = Problem solving for measurement

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LO = Location & special relationships

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# GRADE LEVEL CONTENT EXPECTATIONS ALIGNED TO THE MICHIGAN CURRICULUM FRAMEWORK

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