



# Key Topics by Grade with Michigan Grade Level Expectations



## 3rd Grade

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|-------------------------------------|--|
| 1. Place Value to 10,000            | N.ME.03.01<br>N.ME.03.02<br>N.ME.03.03 |
| 2. Multi-Digit Addition             | N.FL.03.06                             |
| 3. Multi-Digit Subtraction          | N.FL.03.06                             |
| 4. Multiplication by a Single Digit | N.MR.03.09<br>N.FL.03.11<br>N.MR.03.12 |
| 5. Division by a Single Digit       | N.MR.03.09<br>N.FL.03.11<br>N.MR.03.12 |
| 6. Geometry—Identifying Shapes      | G.GS.03.04<br>G.GS.03.02               |
| 7. Basic Fractions                  | N.ME.03.16                             |

## 4th Grade

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|---|--|
| 1. Place Value to 1,000,000                   | N.ME.04.01<br>N.ME.04.02               |
| 2. Multi-Digit Multiplication                 | N.FL.04.10                             |
| 3. Long Division w/Single Digit Divisor       | N.FL.04.11                             |
| 4. Geometry—Perimeter and Area                | M.UN.03.05<br>M.TE.04.06               |
| 5. Algebra—Find the Missing Number or Sign    | N.FL.04.12                             |
| 6. Add/Subtract Fractions w/Like Denominators | N.MR.04.27                             |
| 7. Basic Decimals—Add/Subtract Decimals       | N.ME.04.16<br>N.ME.04.18<br>N.MR.04.19 |

## 5th Grade

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| 1. Graphing Coordinates                          | A.RP.06.02                             |
| 2. Long Division w/Multi-Digit Divisors          | N.MR.05.02                             |
| 3. Multiply/Divide Decimals                      | N.FL.06.15                             |
| 4. Geometry—Area of Parallelograms and Triangles | M.TE.05.06<br>M.TE.05.07               |
| 5. Add/Subtract Integers                         | N.MR.06.08<br>N.FL.06.09               |
| 6. Add/Subtract Fractions w/Unlike Denominators  | N.FL.05.14<br>N.MR.06.08               |
| 7. Decimals, Fractions, and Percents             | N.ME.05.08<br>N.ME.05.09<br>N.MR.05.22 |

## 6th Grade

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| 1. Factoring Numbers, GCF, and LCM                 | N.MR.05.07                             |
| 2. Geometry—Circumference/Area of a Circle         | G.SR.08.03                             |
| 3. Add/Subtract Mixed Numbers                      | N.FL.05.14                             |
| 4. Ratios and Proportions                          | N.ME.05.23<br>N.FL.07.05               |
| 5. Multiply/Divide Integers                        | N.FL.06.09                             |
| 6. Algebra—Solve One-Step Equations                | A.FO.06.11<br>A.FO.06.12<br>A.FO.06.13 |
| 7. Compare/Order Fractions, Decimals, and Integers | N.ME.06.05<br>N.ME.06.06               |

## 7th Grade

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| 1. Order of Operations                     | N.FL.07.07               |
| 2. Multiply/Divide Fractions               | N.MR.06.01<br>N.FL.06.04 |
| 3. Powers, Exponents, and Roots            | N.MR.07.06               |
| 4. Algebra—Solve Two-Step Equations        | A.FO.06.14               |
| 5. Graphing Using the Slope Formula        | A.PA.07.06               |
| 6. Simplifying Fractions w/Variables       | A.PA.07.11               |
| 7. Pythagorean Theorem and Right Triangles | G.GS.08.01               |

## 8th Grade

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|---------------------------------------|--------------------------|
| 1. Algebra—Solve Multi-Step Equations | A.FO.07.13               |
| 2. Add/Subtract Polynomials           | A.FO.07.12               |
| 3. Multiply/Divide Polynomials        | A.FO.08.07<br>A.FO.07.12 |
| 4. FOIL                               | A.FO.08.07               |
| 5. Factoring Polynomials              | A.FO.08.08               |
| 6. Graph Linear Equations             | A.PA.07.07               |
| 7. Quadratic Formula                  | A.FO.08.08               |