

N-GEN MATH[®] 6

(WITH NGMLS ALIGNMENT)

BY KIRK WEILER

UNIT #1 – THE WHOLE NUMBERS 11

- Lesson 1 – Whole Number Multiplication – **MP.1, MP.4, MP.6, 6.G.1**
- Lesson 2 – Multiples of Whole Numbers – **MP.1, MP.4, MP.6, 6.NS.4**
- Lesson 3 – Division of Whole Numbers – **MP.1, MP.4, MP.6**
- Lesson 4 – Multidigit Multiplication and Division – **MP.1, MP.4, MP.6, 6.NS.2**
- Lesson 5 – Factoring and Prime Numbers – **MP.1, MP.4, MP.6**
- Lesson 6 – Prime Factoring – **MP.1, MP.4, MP.7**
- Lesson 7 – Greatest Common Factors – **MP.1, MP.4, MP.7, 6.NS.4**
- Lesson 8 – Turning Sums into Products – **MP.1, MP.4, MP.6, MP.7, 6.NS.4, 6.G.1**

UNIT #2 – FRACTIONS 53

- Lesson 1 – Fractions and Mixed Numbers – **MP.1, MP.4, MP.6**
- Lesson 2 – Equivalent Fractions – **MP.1, MP.4, MP.6, MP.7**
- Lesson 3 – Fractions and Division – **MP.1, MP.4, MP.6, MP.7, 6.G.1**
- Lesson 4 – Adding and Subtracting Fractions – **MP.1, MP.4, MP.6, MP.7, 6.NS.4**
- Lesson 5 – Multiplying Fractions by Whole Numbers – **MP.1, MP.4, MP.6, MP.7**
- Lesson 6 – Finding a Fraction of a Whole – **MP.1, MP.4, MP.6, MP.7**



- Lesson 7 – Multiplying Fractions – **MP.1, MP.4, MP.6, MP.7**
- Lesson 8 – Dividing Fractions – **MP.1, MP.4, MP.6, MP.7, 6.NS.1**
- Lesson 9 – More Work Dividing Fractions – **MP.1, MP.4, MP.6, MP.7, 6.NS.1**

UNIT #3 – DECIMALS 99

- Lesson 1 – The Base-Ten Number System – **MP.1, MP.4, MP.6, MP.7, 6.NS.2**
- Lesson 2 – Adding and Subtracting Decimals – **MP.1, MP.4, MP.6, MP.7, 6.NS.3**
- Lesson 3 – Multiplying Decimals – **MP.1, MP.4, MP.6, MP.7, 6.NS.3**
- Lesson 4 – More Work Multiplying Decimals – **MP.1, MP.4, MP.6, MP.7, 6.NS.3, 6.G.1**
- Lesson 5 – Dividing Whole Numbers with Decimal Remainders – **MP.1, MP.4, MP.6, MP.7, 6.NS.3**
- Lesson 6 – Dividing Decimals – **MP.1, MP.4, MP.6, MP.7, 6.NS.3**
- Lesson 7 – More Practice Dividing Decimals – **MP.1, MP.4, MP.6, MP.7, 6.NS.3**
- Lesson 8 – Mixed Up Decimal Practice – **MP.1, MP.4, MP.6, MP.7, 6.NS.3, 6.G.1**

UNIT #4 – NEGATIVE NUMBERS 139

- Lesson 1 – Ordering the Positive Numbers – **MP.1, MP.4, MP.7, 6.NS.5, 6.NS.6.c, 6.NS.7.a, 6.NS.7.b**
- Lesson 2 – Introduction to Negative Numbers – **MP.1, MP.4, MP.7, 6.NS.5, 6.NS.6.a, 6.NS.6.b, 6.NS.6.c**
- Lesson 3 – Ordering the Rational Numbers – **MP.1, MP.4, MP.7, 6.NS.6.a, 6.NS.6.c, 6.NS.7.a, 6.NS.7.b**



- Lesson 4 – The Absolute Value of a Number – **MP.1, MP.4, MP.6, MP.7, 6.NS.5, 6.NS.6.a, 6.NS.6.c, 6.NS.7.c, 6.NS.7.d**
- Lesson 5 – Plotting Points in the Coordinate Plane – **MP.1, MP.4, MP.5, MP.7, 6.NS.6.b, 6.NS.6.c, 6.NS.8, 6.G.3**
- Lesson 6 – More Work in the Coordinate Plane – **MP.1, MP.4, MP.5, MP.7, 6.NS.6.b, 6.NS.6.c, 6.NS.8, 6.G.3**

UNIT #5 – ALGEBRAIC EXPRESSIONS 171

- Lesson 1 – Exponents – **MP.1, MP.4, MP.5, MP.7, 6.EE.1, 6.G.5**
- Lesson 2 – Order of Operations – **MP.1, MP.4, MP.5, MP.7, 6.EE.1**
- Lesson 3 – Variables and Algebraic Expressions – **MP.1, MP.4, MP.5, MP.7, 6.EE.2.a, 6.EE.2.b, 6.EE.2.c, 6.EE.6**
- Lesson 4 – Parts of an Algebraic Expression – **MP.1, MP.4, MP.5, MP.7, 6.EE.2.a, 6.EE.2.b, 6.EE.2.c, 6.EE.6**
- Lesson 5 – Equivalent Expressions – **MP.1, MP.4, MP.5, MP.7, 6.EE.2.a, 6.EE.2.b, 6.EE.2.c, 6.EE.4, 6.EE.6**
- Lesson 6 – More Work with Equivalent Expressions – **MP.1, MP.4, MP.5, MP.7, 6.EE.2.b, 6.EE.2.c, 6.EE.3, 6.EE.4, 6.EE.6**

UNIT #6 – EQUATIONS AND INEQUALITIES 205

- Lesson 1 – Equations and Their Solutions – **MP.1, MP.4, MP.7, 6.EE.5**
- Lesson 2 – Solving One Step Equations with Addition and Subtraction – **MP.1, MP.4, MP.5, MP.7, 6.EE.5, 6.EE.6, 6.EE.7**
- Lesson 3 – Solving One Step Equations with Multiplication and Division – **MP.1, MP.4, MP.5, MP.7, 6.EE.5, 6.EE.6, 6.EE.7**
- Lesson 4 – Messy Equations – **MP.1, MP.4, MP.5, MP.7, 6.EE.6, 6.EE.7**



- Lesson 5 – Translating into Math Equations – **MP.1, MP.4, MP.5, MP.7, 6.EE.5, 6.EE.6, 6.EE.7**
- Lesson 6 – Solutions to Inequalities – **MP.1, MP.4, MP.5, MP.7, 6.EE.5, 6.EE.8**
- Lesson 7 – Translating Phrases into Inequalities – **MP.1, MP.4, MP.5, MP.7, 6.EE.5, 6.EE.8**

UNIT #7 – RATIOS AND RATES 243

- Lesson 1 – Introduction to Ratios – **MP.1, MP.4, MP.7, 6.RP.1**
- Lesson 2 – Using Tables to Solve Ratio Problems – **MP.1, MP.4, MP.5, MP.7, 6.RP.1, 6.RP.3.a**
- Lesson 3 – Equivalent Ratios – **MP.1, MP.4, MP.5, MP.7, 6.RP.1, 6.RP.3.a**
- Lesson 4 – Investigating Ratios Using Tape Diagrams – **MP.1, MP.4, MP.5, MP.7, 6.RP.1, 6.RP.3.a**
- Lesson 5 – Ratios as Fractions – **MP.1, MP.4, MP.5, MP.7, 6.RP.1**
- Lesson 6 – Ratios and Unit Rates – **MP.1, MP.4, MP.5, MP.7, 6.RP.1, 6.RP.2, 6.RP.3.a, 6.RP.3.b**
- Lesson 7 – More Work with Rates – **MP.1, MP.4, MP.5, MP.7, 6.RP.1, 6.RP.2, 6.RP.3.a, 6.RP.3.b**
- Lesson 8 – Converting Units – **MP.1, MP.4, MP.7, 6.RP.3.d**
- Lesson 9 – Variables Related by Rates – **MP.1, MP.4, MP.7, 6.RP.2, 6.RP.3.a, 6.EE.9**

UNIT #8 – PERCENT 289

- Lesson 1 – Introduction to Percent – **MP.1, MP.3, MP.4, MP.7, MP.8, 6.RP.3.c**
- Lesson 2 – Percent and Equivalent Ratios – **MP.1, MP.4, MP.5, MP.7, 6.RP.3.c**



- Lesson 3 – Finding Percent Using a Product – **MP.1, MP.4, MP.5, MP.7, 6.RP.3.c**
- Lesson 4 – Everyday Percent Problems – **MP.1, MP.4, MP.5, MP.7, 6.RP.3.c**

UNIT #9 – AREA 313

- Lesson 1 – The Area of a Rectangle – **MP.1, MP.4, MP.7, 6.G.1, 6.G.3**
- Lesson 2 – The Area of a Triangle – **MP.1, MP.4, MP.7, 6.G.1, 6.G.3**
- Lesson 3 – Trapezoids and Their Areas – **MP.1, MP.4, MP.7, 6.G.1, 6.G.3**
- Lesson 4 – Parallelograms – **MP.1, MP.4, MP.7, 6.G.1, 6.G.3**
- Lesson 5 – Perimeter, Area, and Algebra – **MP.1, MP.4, MP.7, 6.G.1, 6.G.5**

UNIT #10 – SOLIDS 343

- Lesson 1 – Types of Solids – **MP.1, MP.4, MP.7**
- Lesson 2 – Volumes of Right Rectangular Prisms – **MP.1, MP.4, MP.6, MP.7, 6.G.2**
- Lesson 3 – Surface Area – **MP.1, MP.4, MP.6, MP.7, 6.G.4**
- Lesson 4 – Modeling with Volume and Surface Area – **MP.1, MP.4, MP.6, MP.7, 6.G.2, 6.G.4**

UNIT #11 – STATISTICS 367

- Lesson 1 – Statistical Questions – **MP.1, MP.4, MP.7, 6.SP.1.a, 6.SP.4**
- Lesson 2 – Populations and Samples – **MP.1, MP.4, MP.7, 6.SP.1.b**
- Lesson 3 – Displaying Data in Histograms – **MP.1, MP.4, MP.7, 6.SP.2, 6.SP.4**
- Lesson 4 – Measuring the Center of a Data Set – **MP.1, MP.4, MP.7, 6.SP.2, 6.SP.3, 6.SP.5.a, 6.SP.5.b, 6.SP.5.c**



- Lesson 5 – Variation in a Data Set – **MP.1, MP.4, MP.7, 6.SP.2, 6.SP.5.c**
- Lesson 6 – Data Distribution Shapes – **MP.1, MP.4, MP.7, 6.SP.2, 6.SP.5.c, 6.SP.5.d**
- Lesson 7 – Outliers – **MP.1, MP.4, MP.7, 6.SP.2, 6.SP.5.c, 6.SP.5.d**
- Lesson 8 – Sampling a Population – **MP.1, MP.4, MP.7, 6.SP.1.b, 6.SP.1.c, 6.SP.2, 6.SP.5.a, 6.SP.5.b, 6.SP.5.c, 6.SP.5.d**

UNIT #12 – PROBABILITY 413

- Lesson 1 – Measuring Chance with Ratios – **MP.1, MP.4, MP.7, 6.SP.6, 6.SP.8.a**
- Lesson 2 – Predicting Outcomes – **MP.1, MP.4, MP.7, 6.SP.6, 6.SP.7, 6.SP.8.a**
- Lesson 3 – Probability and Percent – **MP.1, MP.4, MP.7, 6.SP.6, 6.SP.8.a**
- Lesson 4 – Nonuniform Probabilities – **MP.1, MP.4, MP.7, 6.SP.6, 6.SP.8.b**

