

# Common Core State Standards for Mathematics

## PowerZone Intermediate Math Series Correlation

- Algebra, Geometry & Measurement      Grade 3 (Level 1)
- Number Sense & Data Analysis      Grade 3 (Level 1)
  
- Algebra, Geometry & Measurement      Grade 4 (Level 2)
- Number Sense & Data Analysis      Grade 4 (Level 2)
  
- Algebra, Geometry & Measurement      Grade 5 (Level 3)
- Number Sense & Data Analysis      Grade 5 (Level 3)

Learning Multi-Systems, Inc.  
1402 Greenway Cross  
Madison, WI 53713

800.362.7323 voice  
[www.LMSsite.com](http://www.LMSsite.com)



Technology to Inspire Learning

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## Common Core State Standards for Mathematics PowerZone Intermediate Math Correlation

The PowerZone Intermediate Math Series consists of six Content Set titles, two each for grades three, four, and five:

- **Algebra, Geometry & Measurement**      **Grade 3 (Level 1)**
- **Number Sense & Data Analysis**      **Grade 3 (Level 1)**
  
- **Algebra, Geometry & Measurement**      **Grade 4 (Level 2)**
- **Number Sense & Data Analysis**      **Grade 4 (Level 2)**
  
- **Algebra, Geometry & Measurement**      **Grade 5 (Level 3)**
- **Number Sense & Data Analysis**      **Grade 5 (Level 3)**

The following pages represent the correlation of PowerZone Intermediate Math titles to the Common Core State Standards for Mathematics. The first page for each grade level is the correlation chart. The second page displays “Pick the Question Mix” screen shots. Each screen shot includes PowerZone topics for a specific grade: three, four, or five, and title: Number Sense & Data Analysis or Algebra, Geometry & Measurement.

Prior to using the software in a PowerZone classroom session, teachers have the option to select specific questions by using the “Pick the Question Mix” capability. Teachers first select any combination of topics and then preview and turn individual questions “off” or back “on”. The correlation chart facilitates selection of topics and questions related to the Common Core State Standards.

An optional Toolkit is available which allows teachers to author and add questions to Content Sets. Teachers can organize and save authored questions by Common Core State Standards or by other standards and organizational structures as desired. The Toolkit links the authored questions to a “Bonus Questions” button that is accessible during a PowerZone session.

## Common Core - Grade 3 Overview

### Operations and Algebraic Thinking

- Represent and solve problems involving multiplication and division.
- Understand properties of multiplication and the relationship between multiplication and division.
- Multiply and divide within 100.
- Solve problems involving the four operations, and identify and explain patterns.

### Numbers and Operations in Base Ten

- Use place value understanding and properties of operations to perform multi-digit arithmetic.

### Numbers and Operations—Fractions

- Develop understanding of fractions as numbers.

### Measurement and Data

- Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.
- Represent and interpret data.
- Geometric measurement: understand concepts of area and relate area to multiplication and to addition.
- Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.

### Geometry

- Reason with shapes and their attributes.

## PowerZone - Grade 3 (Level 1) Overview

### Operations and Algebraic Thinking

- PowerZone, AGM, Level 1, Topics: 1, 3, 4\*
- PowerZone, AGM, Level 1, Topics: 2, 3, 4

### Numbers and Operations in Base Ten

- PowerZone, NS & DA, Level 1, Topics: 1, 2, 3, 4, 5, 6, 7, 8

### Numbers and Operations—Fractions

- PowerZone, NS & DA, Level 1, Topic: 9

### Measurement and Data

- PowerZone, AGM, Level 1, Topics: 10, 11, 13
- PowerZone, AGM, Level 1, Topics: 13, 14;  
NS & DA, Level 1, Topics: 10, 11, 12, 13
- PowerZone, AGM, Level 1, Topic: 12

### Geometry

- PowerZone, AGM, Level 1, Topics: 6, 7

AGM: Algebra, Geometry & Measurement  
NS & DA: Number Sense & Data Analysis

**\*See Reverse for PowerZone Topic Names**

**PowerZone, Intermediate Math Series**  
**Grade 3 (Level 1), Number Sense & Data Analysis (NS & DA)**  
 Windows/Macintosh

**Pick the Question Mix**

Topics		On	Off
<input type="checkbox"/> Topics			
<input type="checkbox"/> Number Sense			
<input type="checkbox"/> Topic 1	Place Value	10	0
<input type="checkbox"/> Topic 2	Compare and Order Whole Numbers	10	0
<input type="checkbox"/> Topic 3	Round and Estimate Whole Numbers	10	0
<input type="checkbox"/> Topic 4	Addition of Whole Numbers	10	0
<input type="checkbox"/> Topic 5	Subtraction of Whole Numbers	10	0
<input type="checkbox"/> Topic 6	Multiplication of Whole Numbers	10	0
<input type="checkbox"/> Topic 7	Division of Whole Numbers	11	0
<input type="checkbox"/> Topic 8	Addition and Subtraction With Money	10	0
<input type="checkbox"/> Topic 9	Fractions	10	0
<input type="checkbox"/> Data Analysis			
<input type="checkbox"/> Topic 10	Interpret Graphs and Charts	10	0
<input type="checkbox"/> Topic 11	Median, Mode, and Range	10	0
<input type="checkbox"/> Topic 12	Collect and Organize Data	10	0
<input type="checkbox"/> Topic 13	Probability and Outcomes	10	0

back forward done

**PowerZone, Intermediate Math Series**  
**Grade 3 (Level 1), Algebra, Geometry & Measurement (AGM)**  
 Windows/Macintosh

**Pick the Question Mix**

Topics		On	Off
<input type="checkbox"/> Topics			
<input type="checkbox"/> Algebra			
<input type="checkbox"/> Topic 1	Operation Properties	10	0
<input type="checkbox"/> Topic 2	Patterns	10	0
<input type="checkbox"/> Topic 3	Equations	10	0
<input type="checkbox"/> Topic 4	Expressions	10	0
<input type="checkbox"/> Topic 5	Ordered Pairs	10	0
<input type="checkbox"/> Geometry & Spatial Sense			
<input type="checkbox"/> Topic 6	2- & 3-Dimensional Figures	10	0
<input type="checkbox"/> Topic 7	Congruence, Symmetry & Similarity	10	0
<input type="checkbox"/> Topic 8	Lines & Angles	10	0
<input type="checkbox"/> Topic 9	Transformations	10	0
<input type="checkbox"/> Measurement			
<input type="checkbox"/> Topic 10	Time & Temperature	10	0
<input type="checkbox"/> Topic 11	Weight & Capacity	10	0
<input type="checkbox"/> Topic 12	Perimeter, Area & Volume	10	0
<input type="checkbox"/> Topic 13	Length	10	0
<input type="checkbox"/> Topic 14	Estimate Measures & Appropriate Units	10	0

back forward done

## Common Core Math - Grade 4 Overview

### Operations and Algebraic Thinking

- Use the four operations with whole numbers to solve problems.
- Gain familiarity with factors and multiples.
- Generate and analyze patterns.

### Numbers and Operations in Base Ten

- Generalize place value understanding for multi-digit whole numbers.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.

### Numbers and Operations—Fractions

- Extend understanding of fraction equivalence and ordering.
- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Understand decimal notation for fractions, and compare decimal fractions.

### Measurement and Data

- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- Represent and interpret data.
- Geometric measurement: understand concepts of angle and measure angles.

### Geometry

- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

## PowerZone Math - Grade 4 (Level 2) Overview

### Operations and Algebraic Thinking

- PowerZone, AGM, Level 2, Topics: 1, 3, 4, 5\*
- PowerZone, NS & DA, Level 2, Topic: 11
- PowerZone, AGM, Level 2, Topic: 2

### Numbers and Operations in Base Ten

- PowerZone, NS & DA, Level 2, Topics: 1, 2
- PowerZone, NS & DA, Level 2, Topics: 3, 4, 5, 6

### Numbers and Operations—Fractions

- PowerZone, NS & DA, Level 2, Topic: 7
- PowerZone, NS & DA, Level 2, Topics: 8, 9

### Measurement and Data

- PowerZone, AGM, Level 2, Topics: 11, 12, 13, 14, 15
- PowerZone NS & DA, Level 2, Topics: 10, 12, 13, 14, 15; AGM, Level 2, Topics: 6, 16
- PowerZone, AGM, Level 1, Topic: 8

### Geometry

- PowerZone, AGM, Level 1, Topics: 8, 9; Level 2, Topics: 7, 8, 9, 10

AGM: Algebra, Geometry & Measurement

NS & DA: Number Sense & Data Analysis

**\*See Reverse for PowerZone Topic Names**

**PowerZone, Intermediate Math Series**  
**Grade 4 (Level 2), Number Sense & Data Analysis (NS & DA)**  
 Windows/Macintosh

**Pick the Question Mix**

Click any truncated line (...) and see the full text in this area.

Topics		On	Off
<input type="checkbox"/> Number Sense			
<input type="checkbox"/> Topic 1	Place Value	10	0
<input type="checkbox"/> Topic 2	Compare and Order	10	0
<input type="checkbox"/> Topic 3	Add Whole Numbers	10	0
<input type="checkbox"/> Topic 4	Subtract Whole Numbers	10	0
<input type="checkbox"/> Topic 5	Multiply Whole Numbers	10	0
<input type="checkbox"/> Topic 6	Division of Whole Numbers	10	0
<input type="checkbox"/> Topic 7	Add and Subtract Fractions with Like Denomin...	10	0
<input type="checkbox"/> Topic 8	Add and Subtract Decimals	10	0
<input type="checkbox"/> Topic 9	Conversions	10	0
<input type="checkbox"/> Topic 10	Estimation and Rounding	10	0
<input type="checkbox"/> Topic 11	Factors and Multiples	10	0
<input type="checkbox"/> Data Analysis			
<input type="checkbox"/> Topic 12	Collect and Organize Data	10	0
<input type="checkbox"/> Topic 13	Interpreting Graphs and Charts	10	0
<input type="checkbox"/> Topic 14	Range and Central Tendency	10	0
<input type="checkbox"/> Topic 15	Probability	10	0

back forward done

**PowerZone, Intermediate Math Series**  
**Grade 4 (Level 2), Algebra, Geometry & Measurement (AGM)**  
 Windows/Macintosh

**Pick the Question Mix**

Topics		On	Off
<input type="checkbox"/> Algebra			
<input type="checkbox"/> Topic 1	Operation Properties	10	0
<input type="checkbox"/> Topic 2	Patterns	10	0
<input type="checkbox"/> Topic 3	Equations	10	0
<input type="checkbox"/> Topic 4	Expressions	10	0
<input type="checkbox"/> Topic 5	Order of Operations	10	0
<input type="checkbox"/> Topic 6	Ordered Pairs	10	0
<input type="checkbox"/> Geometry & Spatial Sense			
<input type="checkbox"/> Topic 7	2- & 3-Dimensional Figures	10	0
<input type="checkbox"/> Topic 8	Congruence, Symmetry & Similarity	10	0
<input type="checkbox"/> Topic 9	Lines & Angles	10	0
<input type="checkbox"/> Topic 10	Transformations	11	0

back forward done

**Pick the Question Mix**

Topics		On	Off
<input type="checkbox"/> Measurement			
<input type="checkbox"/> Topic 11	Time & Temperature	10	0
<input type="checkbox"/> Topic 12	Weight	10	0
<input type="checkbox"/> Topic 13	Capacity	10	0
<input type="checkbox"/> Topic 14	Perimeter & Area	10	0
<input type="checkbox"/> Topic 15	Length	10	0
<input type="checkbox"/> Topic 16	Estimate Measures & Appropriate Units	10	0

back forward done

## Common Core Math - Grade 5 Overview

### Operations and Algebraic Thinking

- Write and interpret numerical expressions.
- Analyze patterns and relationships.

### Numbers and Operations in Base Ten

- Understand the place value system.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.

### Numbers and Operations—Fractions

- Use equivalent fractions as a strategy to add and subtract fractions.
- Apply and extend previous understandings of multiplication and division to multiply and divide fractions.

### Measurement and Data

- Convert like measurement units within a given measurement system.
- Represent and interpret data.
- Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.

### Geometry

- Graph points on the coordinate plane to solve real-world and mathematical problems.
- Classify two-dimensional figures into categories based on their properties.

## PowerZone Math - Grade 5 (Level 3) Overview

### Operations and Algebraic Thinking

- PowerZone, AGM, Level 3, Topics: 2, 3, 4\*
- PowerZone, AGM, Level 3, Topic: 1

### Numbers and Operations in Base Ten

- PowerZone, NS & DA, Level 3, Topics: 1, 2
- PowerZone, NS & DA, Level 3, Topics: 3, 5, 8, 9

### Numbers and Operations—Fractions

- PowerZone, NS & DA, Level 3, Topics: 4, 8
- PowerZone, NS & DA, Level 3, Topic: 7

### Measurement and Data

- PowerZone, AGM, Level 3, Topics: 10, 11, 12
- PowerZone, NS & DA, Level 3, Topics: 6, 10, 11, 12, 13
- PowerZone, AGM, Level 3, Topics: 13, 14

### Geometry

- PowerZone, AGM, Level 3, Topic: 5
- PowerZone, AGM, Level 3, Topics: 6, 7, 8, 9

AGM: Algebra, Geometry & Measurement  
NS & DA: Number Sense & Data Analysis

**\*See Reverse for PowerZone Topic Names**

**PowerZone, Intermediate Math Series**  
**Grade 5 (Level 3), Number Sense & Data Analysis (NS & DA)**  
 Windows/Macintosh

**Pick the Question Mix**

Topics

Number Sense

	On	Off
<input type="checkbox"/> Topic 1 Place Value	10	0
<input type="checkbox"/> Topic 2 Compare and Order	10	0
<input type="checkbox"/> Topic 3 Computation of Whole Numbers	10	0
<input type="checkbox"/> Topic 4 Computation of Fractions	10	0
<input type="checkbox"/> Topic 5 Computation of Decimals	10	0
<input type="checkbox"/> Topic 6 Rounding and Estimation	10	0
<input type="checkbox"/> Topic 7 Primes, Composites, Factors, and Multiples	10	0
<input type="checkbox"/> Topic 8 Equivalent Forms	10	0
<input type="checkbox"/> Topic 9 Percent of a Number	10	0

Data Analysis

<input type="checkbox"/> Topic 10 Collect and Organize Data	10	0
<input type="checkbox"/> Topic 11 Interpret Graphs and Charts	10	0
<input type="checkbox"/> Topic 12 Central Tendency and Range	10	0
<input type="checkbox"/> Topic 13 Probability	10	0

back forward done

**PowerZone, Intermediate Math Series**  
**Grade 5 (Level 3), Algebra, Geometry & Measurement (AGM)**  
 Windows/Macintosh

**Pick the Question Mix**

Topics

Algebra

	On	Off
<input type="checkbox"/> Topic 1 Patterns and Functions	10	0
<input type="checkbox"/> Topic 2 Expressions	10	0
<input type="checkbox"/> Topic 3 Equations	10	0
<input type="checkbox"/> Topic 4 Order of Operations	10	0
<input type="checkbox"/> Topic 5 Ordered Pairs	10	0

Geometry

<input type="checkbox"/> Topic 6 2- and 3-Dimensional Figures	10	0
<input type="checkbox"/> Topic 7 Symmetry, Congruence, and Similarity	10	0
<input type="checkbox"/> Topic 8 Lines and Angles	10	0
<input type="checkbox"/> Topic 9 Transformations	10	0

Measurement

<input type="checkbox"/> Topic 10 Elapsed Time and Temperature	10	0
<input type="checkbox"/> Topic 11 Weight	10	0
<input type="checkbox"/> Topic 12 Length	10	0
<input type="checkbox"/> Topic 13 Area, Perimeter, and Volume	10	0
<input type="checkbox"/> Topic 14 Estimate Measurements using Appropriate Units	10	0

back forward done