



Holyoke Public Schools Math Scope & Sequence 2011 – 2012

Investigations in Number, Data and Space

and
Connected Math 2
2011-2012

Kindergarten

- Who Is In School Today?
- Counting and Comparing
- What Comes Next?
- Measuring and Counting
- Make a Shape, Build a Block
- How Many Do You Have?
- Sorting and Surveys

Classroom Routines and Materials
Measurement and the Number System 1
Patterns and Functions
Measurement and the Number System 2
2-D and 3-D Geometry
Addition, Subtraction, and the Number System
Data Analysis

Unit Completed by:

Beg Oct
Mid Nov
End Dec
Mid Feb
End Mar
Beg May
Mid June

Grade 1

- How Many of Each?
- Making Shapes and Designing Quilts
- Solving Story Problems
- What Would You Rather Be?
- Fish Lengths and Animal Jumps
- Number Games and Crayons Puzzles
- Twos, Fives, and Tens

Addition, Subtraction, and the Number System 1
2-D Geometry
Addition, Subtraction, and the Number System 2
Data Analysis
Measurement
Addition, Subtraction, and the Number System 3
Addition, Subtraction, and the Number System 4

Unit Completed by:

End Oct.(8wks)
End Nov(3wks)
End Jan(7wks)
Mid Feb(2wks)
Mid Mar(3wks)
End Apr(6wks)
End May(5wks)

Grade 2

- Counting, Coins and Combinations
- Shapes, Blocks and Symmetry
- Stickers, Number Strings, and Story Problems
- Pockets, Teeth, and Favorite Things
- How Many Floors? How Many Rooms?
- How Many Tens? How Many Ones?
- Parts of a Whole, Parts of a Group
- Partners, Teams, and Paper Clips
- Measuring Length and Time

Addition, Subtraction, and the Number System 1
2-D Geometry and 3-D Geometry
Addition, Subtraction, and the Number System 2
Data Analysis
Patterns, Functions, and Change
Addition, Subtraction, and the Number System 3
Fractions
Addition, Subtraction, and the Number System 4
Measurement

Unit Completed by:

Beg Oct(5wks)
Mid Oct (2wks)
End Dec(7wks)
Mid Jan(2wks)
Beg Feb(2wks)
End Mar(6wks)
Beg Apr(2wks)
Mid May(4wks)
Mid June(6wks)

GRADES 3 - 8

**These units represent 60% of the math content tested on the MCAS Test*

Grade 3

- Trading Stickers, Combining Coins*
- Surveys and Line Plots
- Collections and Travel Stories*
- Perimeter, Angles, and Area
- Equal Groups*

Addition, Subtraction, and the Number System 1
Data Analysis
Addition, Subtraction, and the Number System 2
2-D Geometry and Measurement
Multiplication and Division

Unit Completed by:

End Sept(3wks)
End Oct(4wks)
End Dec(7wks)
Mid Jan (2 wks)
Beg Mar(6wks)

- Finding Fair Shares* *Fractions and Decimals* *End Mar (3wks)*
- How Many Hundreds? How Many Miles?* *Addition, Subtraction, and the Number System 3* *Beg May (4wks)*
- Standards Review *Rev all Standards* *Mid May (2wks)*

Grade 4

- Landmarks and Large Numbers* (1) *Addition, Subtraction, and the Number System* *End Sep (4wks)*
- Factors Multiples, and Arrays* *Multiplication and Division 1* *End Oct (4wks)*
- Describing the Shape of the Data *Data Analysis and Probability* *Mid Nov (2wks)*
- Multiple Towers and Division Stories* *Multiplication and Division 2* *Beg Jan(3wks)*
- *Fraction Cards and Decimal Squares* *Fractions and Decimals* *Mid Feb (6wks)*
- Size, Shape, and Symmetry *2-D Geometry and Measurement* *End Mar(4wks)*
- Moving Between Solids and Silhouettes *3-D Geometry and Measurement* *Mid Apr(2wks)*
- How Many Packages? How Many Groups?* *Multiplication and Division 3* *Beg May(3wks)*
- *Penny Jars and Plant Growth* *Patterns, Functions and Change* *Mid June(5wks)*

Unit Completed by:

Grade 5

- Thousands of Miles, Thousands of Seats* *Addition, Subtraction, and the Number System* *Unit Completed by:* *End Sept(4wks)*
- Number Puzzles & Multiple Towers AND How Many People? How Many Teams *Multiplication and Division 1 and 2* *Beg Dec(8wks)*
- Measuring Polygons *2-D Geometry and Measurement* *End Dec(2wks)*
- What's That Portion? *Fractions and Percents 1* *End Feb (7wks)*
- Decimals of Grids and Number Lines* *Decimals, Fractions, and Percents 2* *End Mar(4wks)*
- Prisms and Pyramids *3-D Geometry and Measurement* *Mid Apr(2wks)*
- Growth Patterns *Patterns, Functions, and Change* *Mid May(3wks)*
- How Long Can You Stand on One Foot? *Data Analysis & Probability* *End May(2wks)*

Unit Completed by:

Grade 6

- Data about us *Statistics* *Unit Completed by:* *Mid Sept(3wks)*
- Prime Time* (1) *Factors and Multiples* *Mid Oct(3wks)*
- Shapes & Designs (2) *2-D Geometry* *Beg Nov(3wks)*
- *Patterns, Relations, Algebra* *Patterns and Algebra* *Beg Dec.(3wks)*
- Bits and Pieces I* *Understanding Fractions, Decimals, and Percents* *Mid Jan. (4wks)*
- Covering and Surrounding *2- D Measurement* *End Jan.(2wke)*
- Bits and Pieces II* *Using Fraction Operations* *Beg Mar(4wks)*
- Bits and Pieces III* *Computing With Decimals and Percents* *Beg Apr(4wks)*
- *Patterns, Relations, Algebra* *Patterns and Algebra* *Mid Apr(2wks)*
- How Likely Is It? *Understanding Probability* *Beg May (2wks)*
- Standards Review *Rev all Standards* *Mid May (2wks)*

Unit Completed by:

Grade 7

- Accentuate the Negative* *Integers and Rational Numbers* *Unit Completed by:* *Beg Oct. (4wks)*
- Variables and Patterns* *Algebra* *End Oct (4wks)*
- Stretching and Shrinking* *Understanding Similarity* *Beg Dec(3 wks)*

Unit Completed by:

- Comparing and Scaling*
- Moving Straight Ahead*
- Filling and Wrapping (2)
- What Do You Expect?
- Data Distribution

Ratio, Proportion, and Percent
Linear Relationships
3-D Measurement
Probability and Expected Value
Describing Variability and Comparing Groups

End Dec (3wks)
Mid Feb(6wks)
End Mar(4wks)
TBD
TBD

Grade 8

- Thinking With Mathematical Models*
- Looking for Pythagoras*
- Kaleidoscopes, Hubcaps, and Mirrors (1)
- Say It With Symbols*
- The Shapes of Algebra* (3)
- Samples & Populations
- Standards Review
- Growing, Growing, Growing

Linear and Inverse Variation
Pythagorean Theorem
Symmetry and Transformations
Making Sense of Symbols
Linear Systems and Algebra
Box & Whiskers and Statistical Keys on Calculator
Rev all Standards
Exponential Relationships
Algebra

Unit Completed by:

Mid Oct (6wks)
Beg Dec(6wks)
End Dec(2wks)
Mid Feb(6wks)
End Mar(4wks)
Mid Apr(2wks)
Mid May (2wks)
Beg June (2wks)
Mid June (4wks)

High School Expectations