

LINCOLN PUBLIC SCHOOLS
Mathematics Learning Expectations: Grade 6

**Massachusetts
Standards**

The 2011 Massachusetts Curriculum Framework for Mathematics incorporates the common core standards and a select number of additional standards unique to Massachusetts.

**Critical Areas for
Instructional Focus:**

- Ratio and rate
- Division of fractions
- Variables in expressions and equations
- Basic statistics

*See 2011
Massachusetts
Curriculum
Frameworks for
Mathematics:
Grade 6 Introduction
for more detail.*

Content Domains and Key Outcomes

Ratios and Proportional Relationships

- Use ratio concepts and ratio reasoning to solve problems

The Number System

- Apply and extend previous understandings of multiplication and division to divide fractions by fractions
- Multiply and divide multi-digit numbers and find common factors and multiples
- Apply and extend previous understandings of numbers to the system of rational numbers

Expression and Equations

- Apply and extend previous understandings of arithmetic to algebraic expressions
- Reason about and solve one-variable equations and inequalities
- Represent and analyze quantitative relationships between dependent and independent variables

Geometry

- Solve real-world and mathematical problems involving area, surface area and volume

Statistics and Probability

- Use measures of central tendency and variability to analyze data sets
- Display, summarize and describe data sets

*See 2011 Massachusetts Curriculum Frameworks for Mathematics: Grade 6
for more detail.*

Standards for Mathematical Practice

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.

3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

*See 2011 Massachusetts Curriculum Frameworks for Mathematics:
pp.15-17 for more detail on the use of these standards in all domains.*