



# *Reinforcing Math Skills*

**STRIVING FOR MATH SUCCESS IN MIDDLE SCHOOL**

# *Objectives/Schedule*

Review 6<sup>th</sup> grade scope and sequence

- Focus on beginning of the year

Go over math skills for Summer review

Resources

Q and A

# Grade 6 Cluster Standards Overview

## RATIOS AND PROPORTIONAL RELATIONSHIPS

- Understand ratio concepts and use ratio reasoning to solve problems.

## THE NUMBER SYSTEM

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

## EXPRESSIONS 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 mathematical problems involving area, surface area and volume

## STATISTICS AND PROBABILITY

- Develop understanding of statistical variability
- Summarize and describe distributions

**KEY:** ■ Major Clusters | □ Supporting Clusters | ○ Additional Clusters

# 6<sup>th</sup> Grade Overview



*Math Skills: Review  
for the Summer*

- MULTIPLICATION AND DIVISION- STANDARD ALGORITHM
- FRACTIONS: MULTIPLICATION AND DIVISION
- MEASUREMENT

# *Multiplication and Division*



2-digit by 2-digit multiplication using the standard algorithm



Factors and multiples

5

Long division with 1 and 2-digit divisors

# *Fractions*



Multiplication

Review strategies  
(module 4)



Division

Review strategies  
(module 4)



Review addition  
and subtraction  
strategies

Common  
denominator  
Multiples and  
factors



*Measurement:  
conversions  
area  
volume*

MATH CONVERSION CHART – LENGTHS



METRIC CONVERSIONS					
1 centimeter	=	10 millimeters	1 cm	=	10 mm
1 meter	=	100 centimeters	1 m	=	100 cm
1 kilometer	=	1000 meters	1 km	=	1000 m

STANDARD CONVERSIONS					
1 foot	=	12 inches	1 ft	=	12 in
1 yard	=	3 feet	1 yd	=	3 ft
1 yard	=	36 inches	1 yd	=	36 in
1 mile	=	1760 yards	1 mi	=	1760 yd

METRIC -> STANDARD CONVERSIONS					
1 millimeter	=	0.03937 inches	1 mm	=	0.03937 in
1 centimeter	=	0.39370 inches	1 cm	=	0.39370 in
1 meter	=	39.37008 inches	1 m	=	39.37008 in
1 meter	=	3.28084 feet	1 m	=	3.28084 ft
1 meter	=	1.09361 yards	1 m	=	1.09361 yd
1 kilometer	=	1093.6133 yards	1 km	=	1093.6133 yd
1 kilometer	=	0.62137 miles	1 km	=	0.62137 mi

STANDARD -> METRIC CONVERSIONS					
1 inch	=	2.54 centimeters	1 in	=	2.54 cm
1 foot	=	30.48 centimeters	1 ft	=	30.48 cm
1 yard	=	91.44 centimeters	1 yd	=	91.44 cm
1 yard	=	0.9144 meters	1 yd	=	0.9144 m
1 mile	=	1609.344 meters	1 mi	=	1609.344 m
1 mile	=	1.609344 kilometers	1 mi	=	1.609344 km



## *Online Games*

- [HTTPS://WWW.ABCYA.COM/](https://www.abcya.com/)
- [HTTPS://WWW.MATHPLAYGROUND.COM/](https://www.mathplayground.com/)
- [HTTPS://WWW.HOODAMATH.COM/](https://www.hoodamath.com/)
- [HTTPS://WWW.MATHGAMES.COM/](https://www.mathgames.com/)
- [HTTPS://WWW.FUNBRAIN.COM/MATH-ZONE](https://www.funbrain.com/math-zone)



# *Resources*

- KHAN ACADEMY
- FIRST IN MATH
- EUREKA WEBSITE- GREATMINDS.ORG
- XTRAMATH.ORG- FLUENCY
- FLASHCARDS
- SMARTPHONE APPS
- BRAINPOP
- STUDYJAMS-

[HTTP://STUDYJAMS.SCHOLASTIC.COM/STUDYJAMS/JAMS/MATH/INDEX.HTM](http://studyjams.scholastic.com/studyjams/jams/math/index.htm)

*Q and A*

