

## 8<sup>th</sup> Grade Mathematics Curriculum

### Course Description:

The 8<sup>th</sup> Grade Mathematics course is aligned with the Mathematics Core Curriculum of MST Standard 3 of the New York State Learning Standards. It focuses on algebra with a continuation of students' skills in solving linear equations.

### Course Essential Questions:

TBD

### 8<sup>th</sup> Grade State Assessment Information:

#### Approximate Percentage of Questions Assessing Each Strand

Strand:	Percent:	Time allotted:	Units:
Number Sense and Operations:	11%	(2 weeks)	(Unit 1)
Algebra:	44%	(9 weeks)	(Unit 2, Unit 2A, Unit 5)
Geometry:	35%	(7 weeks)	(Unit 3, Unit 4)
Measurement:	10%	(2 weeks)	(Unit 1)
Probability and Statistics:	0%	(0 weeks)	

### Additional Information:

8<sup>th</sup> Grade Formula Sheet

#### Mathematics Reference Sheet—Grade 8

##### FORMULAS

Pythagorean theorem



$$c^2 = a^2 + b^2$$

Simple Interest

$$I = prt$$

Distance Formula

$$d = rt$$

Slope-Intercept Form

$$y = mx + b$$

$m = \text{slope}$  and  $b = \text{y-intercept}$

##### CONVERSIONS

Temperature Conversion

$$F = \frac{9}{5}C + 32$$

$$C = \frac{5}{9}(F - 32)$$

Measurement Conversions

$$1 \text{ mile} = 5,280 \text{ feet}$$

$$1 \text{ yard} = 3 \text{ feet}$$

8<sup>th</sup> Grade Mathematical Language