

Grades 6--8 Mathematics

Year at a Glance

Grade 6

Unit No.	Unit Topic	Days Allotted
Unit 1:	Ratios	10
Unit 2:	Rates, including percent	12
Unit 3:	Multi--digit computation and finding common factors and multiples	9
Unit 4:	Dividing fractions	9
Unit 5:	Representing relationships	13
Unit 6:	Extending the number system	11
Unit 7:	Relationships in the coordinate plane	10
Unit 8:	Algebraic expressions	10
Unit 9:	Understanding, writing, and solving equations and inequalities	14
Unit 10:	Problem solving with area in 2--D shapes	9
Unit 11:	Problem solving with volume and surface area	9
Unit 12:	Understanding data distributions	7
Unit 13:	Analyzing data	11
		134 days

Grade 7

Unit No.	Unit Topic	Days Allotted
Unit 1:	Proportional reasoning	9
Unit 2:	Proportional relationships	10
Unit 3:	Proportional reasoning with percents	9
Unit 4:	Rational number operations—addition and subtraction	10
Unit 5:	Rational number operations—multiplication and division	9
Unit 6:	Solving equations	11
Unit 7:	Solving equations and inequalities	9
Unit 8:	Probability of simple events	10
Unit 9:	Probability of compound events	9
Unit 10:	Sampling, inferences, and comparing populations	10
Unit 11:	2--D figures	10
Unit 12:	3--D figures	10
Unit 13:	Scale drawings	10
Unit 14:	Geometric constructions	9
		135 days

Grade 8

Unit No.	Unit Topic	Days Allotted
Unit 1:	Introducing transformations	8
Unit 2:	Understanding congruence through transformations	9
Unit 3:	Understanding similarity	11
Unit 4:	Rational and irrational numbers	7
Unit 5:	Pythagorean theorem	11
Unit 6:	Functions	8
Unit 7:	Introduction to linearity	11
Unit 8:	Patterns of association in bivariate data	13
Unit 9:	Nonlinear functions	8
Unit 10:	Solving linear equations	9
Unit 11:	Systems of linear equations	15
Unit 12:	Exponents and scientific notation	9
Unit 13:	Geometric relationships	9
Unit 14:	Volume of cones, spheres, and cylinders	10
		138 days