

# **8th Grade Pre-Algebra Curriculum Calendar: Semester 1**

## **Unit 1: Back to School**

Week 1 Aug 23-25:

Policies, Procedures, and Mathematics Skill Exam.

Weeks 2 & 3 Aug 28-Sept 8:

Review of important past material: order of operations, integers, frac/dec/per, and more.

## **Unit 2: Numbers and Roots**

Weeks 4 & 5 Sept 11 - 22: PA.N.1.4 and PA.N.1.5

Rationales/irrationals, square roots,

## **Unit 3: Exponents**

Weeks 6, 7, & 8 Sept 25 - Oct 13: PA.N.1.1 PA.N.1.2 and PA.N.1.3

Exponential properties and scientific notation

Week 9 Oct 16-18:

Review and Exam 1

## **Unit 4: Expressions, Equations, and Inequalities**

Week 10 Oct 23 - Oct 27: PA.A.3.1 and PA.A.3.2

Using substitution and justifying steps in solving expressions.

Weeks 11, 12, & 13 Oct 30 - Nov 17: PA.A.4.1 and PA.A.4.3

Solving, interpreting, and explaining multistep equations in context

Week 14 Nov 20 - 21:

Review and Exam 2

Week 15 Nov 27 - Dec 1: PA.A.4.2 and PA.A.4.3

Solving and graphing linear inequalities

## **Unit 5: Functions**

Week 16 Dec 4 - 8: PA.A.1.1

Recognizing Functions

Weeks 17 and 18 Dec 11 - 21:

2 days for review, 1 for fall semester exam. remaining are flex days for the previous weeks.

## **8th Grade Pre-Algebra Curriculum Calendar: Semester 2**

Week 19 Jan 8 - 12:

Going over Semester exam, brief review of previous semester.

Weeks 20, 21, & 22 Jan 16 - Feb 2: PA.A.1.2, PA.A.1.3, PA.A.2.1, and PA.A.2.2

Interpreting, using, and graphing functions in various forms.

Weeks 23 and 24 Feb 5 - 16: PA.A.2.3, PA.A.2.4, and PA.A.2.5

Predicting and explaining changes to functions.

### **Unit 6 Geometry**

Weeks 25 and 26 Feb 20 - Mar 2 PA.GM.1.1 and PA.GM.1.2

Pythagorean Theorem

Week 27 Mar 5 - 9

Review and Exam 3 (Exam 4 is given out as a take home exam due Mar 29)

Week 28 and 29 Mar 19 - 29 PA.GM.2.1, PA.GM.2.2, PA.GM.2.3, and PA.GM.2.4

Surface Area and Volume of Rectangular Prisms and Cylinders.

### **Unit 7 Data Analysis**

Weeks 30 and 31 Apr 2 - 12: PA.D.1.1, PA.D.1.2 PA.D.2.1 PA.D.2.2 PA.D.2.3

Measures of Central Tendency with Outliers, Scatter Plots, and Experimental Probability.

Week 32 Apr 16 - 20:

Review and State Exams

Weeks 33 - 37 Apr 23 to May 24

Algebra I prep and spring semester exam