



Class Title: Orange Pre-Algebra 2

Subjects Covered: Math

Teacher Name: Trish Poston

Class Day: Monday and Friday

Class Size: 12

Overall Class Cost: \$39

Individual Student Supply Fee: \$0

Class Fee: \$129

Ages or color group served: Orange

What level is this class: Level 3

Prerequisites: Pre-Algebra 1 which includes:

Students that fall behind on listed prerequisite skills will be assigned additional Homework assignments to catch up, otherwise may be removed from the class.

- Fractions: Simplifying, Adding, Subtracting, Multiplying, Dividing including improper and mixed numbers, converting to decimals

- Integers and Order of Operations:

- Adding and Subtracting positive and negative numbers, Multiplying and Dividing negative and positive numbers, PEMDAS

- Decimals:

- Adding, Subtracting, Multiplying, Dividing, Percentage of a number including increase and decrease

- Ratios and Proportions:

- Simplifying, Similarity

- Exponents:

- Properties and Powers of

- Definition of Variables: letter used to stand for a number

Graduation Requirements: HCU Attendance

Grade of C or above

Homework Requirements: Weekly and graded based on completion

Class Description:

This is a follow up class to Pre-Algebra 1 concepts listed in the prerequisites. It introduces concepts bridging the gap between elementary arithmetic and abstract algebra. The goal is for students to develop an understanding and build a strong foundation for future higher level math courses, especially Algebra 1 and/or Geometry.

Week 1:

- Go over/sign Syllabus, class expectations, supplies, grading scale

Review Pre-req concepts, variables and exponents

HW: Review worksheet for skill assessment

- Simplifying Variable Expressions: Combining like terms, coefficients

HW: Worksheet

Week 2:

- Simplifying Polynomial Expressions: Combining Like terms, standard form

HW: Worksheet

- Distributive Property

HW: Worksheet

Week 3:

- Review Homework, Study Activity

HW: Study Guide

- Quiz 1: Simplifying Expressions

Week 4:

- Evaluating One and Two Variables using Substitution: How to check your answer

HW: Worksheet

- One Step Equations: solving for a variable using inverse operations, check your answer using substitution

HW: Worksheet

Week 5:

- Multi-Step Equations: combine like terms, inverse operations, check your answer

HW: Worksheet

- Review and Study Activity

HW: Study Guide

Week 6:

- Quiz 2: Equations and using substitution to check answers
- Geometry: Pythagorean Theorem: find a missing side in a right triangle

HW: Worksheet

Week 7:

- Complementary and Supplementary Angles

HW: Worksheet

- Triangles: Sum of all angles, Area

HW: Worksheet

Week 8:

- Perimeter of Polygons

HW: Worksheet

- Circles: Radius, Diameter, Area, Circumference

HW: Worksheet

Week 9:

- Review and Study Activity

HW: Study Guide

- Quiz 3: Geometry: Angles, Triangles, Perimeter of Polygons, Circles

Week 10:

- Mean, Median, Mode

HW: Worksheet

- Coordinates on a graph: x-axis and y-axis, quadrants, plotting given points, finding slope using points

HW: Worksheet

Week 11:

- Review and Study Activity

HW: Study Guide

- Quiz 4: Mean, Median Mode, Intro to Graphs, Finding Slope using points

HW: Study Guide for Final Exam

Week 12:

- Final Exam
- Review Final and Celebrate Success!