

# **PRE-CALCULUS W/ TRIGONOMETRY**

## **2011-12 SCHOOL YEAR**

**COURSE DESCRIPTION: THIS COURSE IS INTENDED TO PROVIDE THE MATHEMATICAL BACKGROUND NEEDED FOR CALCULUS. PREREQUISITES FOR THIS COURSE WOULD BE AN “A” OR “B” IN ALGEBRA I, GEOMETRY, AND ALGEBRA II. THIS TEXT INTEGRATES GRAPHING TECHNOLOGY AND THE CONCEPTS ARE EXPLORED FROM ALGEBRAIC, GRAPHICAL, AND NUMERICAL PERSPECTIVES. STUDENTS ARE EXPECTED TO PARTICIPATE ACTIVELY IN THE DEVELOPMENT OF THESE CONCEPTS BY USING GRAPHING TECHNOLOGY.**

### **EXPECTATIONS:**

- 1) BE ON TIME AND PREPARED FOR LEARNING (BEST YOU CAN BE)**
- 2) COMPLETE ASSIGNED WORK ON-TIME**
- 3) DEMONSTRATE ACADEMIC PROFICIENCY**
- 4) USE WORK TIME APPROPRIATELY**
- 5) DEMONSTRATE RESPECT FOR PEOPLE AND SCHOOL PROPERTY**
- 6) RESPOND APPROPRIATELY TO STAFF MEMBER DIRECTIVES**

### **SEMESTER #1:**

#### **I. CHAPTER 1: “NUMBER PATTERNS”**

**A. LESSONS 1.1 THRU 1.6---18 DAYS**

#### **II. CHAPTER 2: “EQUATIONS AND INEQUALITIES”**

**A. LESSONS 2.1 THRU 2.5---15 DAYS**

#### **III. CHAPTER 3: “FUNCTIONS AND GRAPHS”**

**A. LESSONS 3.1 THRU 3.7---21 DAYS**

#### **IV. CHAPTER 4: “POLYNOMIAL AND RATIONAL FUNCTIONS”**

**A. LESSONS 4.1 THRU 4.6---18 DAYS**

#### **V. CHAPTER 5: “EXPONENTIAL AND LOGARITHMIC FUNCTIONS”**

**A. LESSONS 5.1 THRU 5.4---12 DAYS**

#### **VI. SEMESTER REVIEW & TEST---6 DAYS**

### **SEMESTER #2:**

#### **I. CHAPTER 5: “EXPONENTIAL AND LOGARITHMIC FUNCTIONS”**

**A. LESSONS 5.5 THRU 5.7---12 DAYS**

#### **II. CHAPTER 6: “TRIGONOMETRY”**

**A. LESSONS 6.1 THRU 6.5---20 DAYS**

#### **III. CHAPTER 7: “TRIGONOMETRIC GRAPHS”**

**A. LESSONS 7.1 THRU 7.4---16 DAYS**

#### **IV. WATCH & WRITE A PAPER OVER “STAND & DELIVER”---6 DAYS “CLOSE-UP WEEK”**

#### **V. CHAPTER 8: “SOLVING TRIGONOMETRIC EQUATIONS”**

**A. LESSONS 8.1 THRU 8.6---18 DAYS**

#### **VI. REVIEW & PRACTICE FOR “ACT” AND PREPARE FOR THE THE “JUMP” TEST---6 DAYS**

#### **VII. CHAPTER 10 “TRIGONOMETRIC APPLICATIONS”**

**A. LESSONS 10.1 THRU 10.2---10 DAYS**

#### **VIII. SEMESTER REVIEW & TEST---4 DAYS**

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