

# Mathematics A

## COURSE OUTLINE

Category	Fundamental Sciences
Duration	15 Hours
Software	None
Recommended Prerequisites	None
Catalog Number	3135-0000

### Lesson 1: Symbols, Numbers, Numerals

Introduction

Types of Numbers

The Decimal System

Practice

### Lesson 2: The Number Line and Number Systems: Natural Numbers, Integers, Rational Numbers, Irrational Numbers, and Real Numbers

Getting Started

Number Systems

Moving Along a Number Line

Rational Numbers

Irrational Numbers

Irrational Numbers on the Number Line

Practice

### Lesson 3: Ratios, Rates, and Proportions

Ration

Rate

Proportion

Scale Factor

Cross Multiplying

**Lesson 4: The Metric Decimal System**

Introduction

The Decimal System

The Metric System

Practice

**Lesson 5: Negative Numbers**

Getting Started

More Concepts

Operations with Negative Numbers

Practice

**Comprehensive Post-Test**