

PART I. MATHEMATICS

This unit explores the problem solving process. We will see that there are organized ways to approach and solve problems. Applied mathematics forms the basis of physical sciences. When you finish this unit you should have a general perspective on problem solving methods, understand what an algorithm is and how it is constructed, and be able to solve problems involving conversion of units and basic algebra.

A fundamental concept for this unit is that *systematic procedures, called algorithms form the basis of organized activities, including scientific problem solving*. This will be illustrated with examples taken from measurement manipulations and mathematics.