

In The Name of Allah

Mathematics (I)

First Grade High School Course
Translated from Persian

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In The Name of Allah

Education is the key to comprehensive development of the human communities, since it has the task and the mission toward training productive and developed human beings.

Not long ago, three main sources of capital:

Natural resources, underground resources and agricultural resources on the field of development, but today, the efficient manpower equipped with knowledge, skill and high level ideas leads into development and progress.

The educational system plays a key and pivotal role in providing development and progress opportunities, which is possible through the manpower build-up. It goes without saying that any qualitative change in education entails changing the capabilities and aptitudes of teachers, programs, methods, contents and other issues related to education. That said, one must always doubt in the status quo and not feel content with it, know the elements affecting the teaching and learning system and provide backgrounds for using them, since negligence to these factors may be non-remediable.

In that regard, Fars Province Educational Organization, has taken a step toward upgrading skills and academic aptitude of students by implementing the project of teaching Mathematics, Physics and Chemistry at the first grade level in English, in addition to their being taught in Persian, for the first time in the Secondary School Education, so as the students be able to find new sources of knowledge using this world's language of science. I am sure that the educational authorities and sympathetic persons would help us in optimizing the implementation by giving their constructive views.

Hamid Reza Azari
Chairman of Fars Province Educational Organization

Introduction

Dear Student

Congratulations on completing your Middle School courses and beginning the first grade of High School. In High School, you will continue many subjects with which you became familiar in the Middle School, but in a more extensive way. In addition, you will be introduced to new topics and subjects.

One of the courses which you studied in the Middle School was Mathematics. You will study this course more extensively in High School. Besides, you will be introduced to new topics and new subjects.

Learning mathematics follows principles and rules which make learning easier. They include the following items, among others:

-Mathematical subjects are totally interconnected, that is, mathematics courses of Primary School, Middle

School and High School have a close and realistic relation with one another.

For instance, if you are skillful in dealing with numerical fractions, you will certainly succeed in algebraic fraction computations, too. If you learned computations with integers efficiently, working with polynomials having integral coefficients would be easy for you, too. Therefore, if you learn first grade mathematics well, you will not have many problems the second grade. But if you did not learn to consolidate the basics, you would have difficulties with the rest of the Mathematics Course in High School.

- When your teacher teaches mathematics in the classroom, pay attention to him/her carefully, take notes, especially write down the exercises solved by the teacher in the class, and organize your writings and notes after the class.
- We have tried to develop the book in the form of a self-study course. To that end, it contains numerous solved exercises and hints necessary for learning the topics. We recommend you to study each lesson in the book carefully after it has been taught in the class and before you start doing your assignments.
- Pay attention to the exercises assigned by the teacher as homework, and make sure to solve them. You would rather to solve a mathematics exercise, using your own ideas and creativity, than to just copy the solutions given for many problems. Human beings enjoy the discovery of unknown facts and the joy of solving mathematical problems is beyond explanation. So try to experience this feeling yourself.
- To be able to do the assigned exercises, you need to study the lesson and the exercises solved in the class, carefully. Consider the fact that:

Learning mathematics requires attention, care and thinking. If you failed to solve a problem, think

again and use your mental abilities. Surely you will succeed.

- The recent investigations show that everybody can learn mathematics through practice.
- If you are weak in mathematics, ask other students to help you, but never copy down the exercises solved by them. This will impede the development of your mental abilities and creativity. We hope that you can experience the joy of solving problems and learning mathematics through your efforts so that it will become one of your favorite subjects, one which you can use practically in the future.

- The Authors

- References

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