**10th Grade Math Curriculum**

In Turkey ,high schools implement a 36 week education and training programme yearly.This education period begins with the month of September and it is devided into two terms with the 15- day January holiday.It finishes in the last week of June.

Our school’s 10th grade math curriculum consists total of 5 units.These units also consist of topics and subtopics too.Each unit,subject and subtopic is given to students within a programme and certain periods.Math course of 10th grade,including six hours per week,consists total of 216 hours.

**Unit 1:** ‘’Counting Data and Probability’’ consists the subtopics of’’Sorting and Selection’’ and ‘’Conditional Probability’’ and requires about 12 hours.

**Unit 2 :** ‘’Numbersand Algebra’’ consists of ‘’Symmetries And Algebraic Properties Of Functions’’,’’Junction Of The Two Functions And The Inverse Of A Function’’ subjects.It requires about 34 hours.

**Unit 3** includes ‘’Geometry’’ topics.In this unit line is examined analytically and the topics of ‘’Rectangles And Features’’,’’Special Rectangles And Polygons’’ are handled. Total of 56 hours is required.

**Unit 4 :** ‘’ Numbers and Algebra’’ consists of two main subjects.The first subject about 38 hours,includes A Variable Equations Of The Second Degree,Quadric Functions And Graphics .The second subject includes Polynomial Concepts And Operations With Polynomials.

 **Unit 5** ,consists of ‘’Geometry’’ topics,is devided into two subtitles.The first topic includes The Features Of The Circle.The second topic consists of Surface Areas And Volume of Solids.Total course hour lasts about 30 hours.

It is an important fact that the subjects of geometry and math are intertwined in terms of students to concrete the abstract concepts.The student’s problem solving skills have been improving significantly. One of the goals of math curriculum aims to use information and communication Technologies (BIT) in place and effectively.

**11th Grade Math Curriculum**

In Turkey ,high school students take 40- hour course in a week.Except 9th and 10th grade students,11th grade students choose 20- hour course according to their interests and abilities among the courses that are suggested.Students choose math in 11th grade ,take 6- hour math course weekly as in 9th and 10th grade.

11th grade math curriculum consists total of 4 units.

**Unit 1** which includes total of 3 subjects ,consists the sujects of ‘’ Numbers and Algebra’’.The first topic with the tittle of Logic tells the students the subjects of Proposals,Open Proposals and the Proof Techniques.It lasts about 30 hours.The second topic is Modular Arithmetic.It consists of the Divisibility Rules and Modular Arithmetic.It consists total of 18 hours.The third topic includes Eduation and Inequality Systems,The Quadratic Eduations And Inequalities.It lasts total of 48 hours.

**Unit 2** consists of ‘’Trigonemetry’’ topics.In this unit, Directional Angles,Trigonometric Functions,Trigonometric Values and Trigonometric Equations subjects have been given .It lasts 46 hours.

**Unit 3** consists of the subjects of Numbers and Algebra.In the first section Exponential And Logarithmic Functions,Exponential And Logarithmic Equations and Inequalities have been given.In the second section The Real Number Sequences have been given.It lasts total of 36 hours.

**Unit 4** consists of ‘’Geometry’’ subjects.In this section Fundemental Transformations In Analytical Plane,Translational,Reflection,Rotation and the applications including the compound of these have been practiced.It consists total of 20 hours.