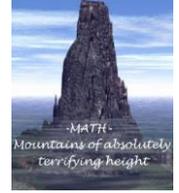




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**MATH**  
*Mountains of Absolutely Terrifying Height*  
2017-1-DE03-KA201-035644  
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## RESEARCH ON TRAINING BASIC MATH SKILLS

For many people, mathematics has been seen as an activity that is difficult to understand, annoying because it cannot be understood, and arouses fear in people (Batdal, 2005). Student achievement in mathematics teaching is generally low and due to this failure students develop a negative attitude towards mathematics and mathematics becomes a fearful dream for many students. Among the reasons for this situation, the methods used in mathematics teaching are of great importance (Baykul, 2003).

In our country, there is a general opinion that students have anxiety and fear about mathematics courses. In addition, mathematics lessons are one of the basic courses of many programs from elementary school 1st grade to higher education. In addition, mathematics questions are determinative in many exams. In terms of students, mathematics is a compulsory course and at the same time, it is perceived as a failing course. The fact that the success rate of mathematics courses in the exams conducted throughout Turkey is lower than the other courses confirms this in a sense. One of the main reasons for this failure is the fear of mathematics that exists in students. Therefore, students think that they will never be successful in mathematics classes. For high school teachers, the biggest problem in math education is that students

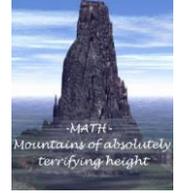
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can't get out of this fear that they have acquired at an early age. Moreover, the lack of knowledge gained in basic mathematics subjects makes it difficult to learn. It is not possible to add more comprehensive new information to the missing mathematical knowledge. Learning mathematics is like a ladder step. This mathematical knowledge needs to be learned step by step.

Mathematics is one of the most unpopular courses by students of our country. The clear proof of this is that we are 44th among 65 countries in PISA exams.

Istanbul Bilgi University Faculty Member Prof. Dr. Ali Nesin says that mathematics is difficult and students should love this difficulty. Prof. Dr. Ali Nesin said: "Maths is difficult because it involves failure rather than success. You don't find the solution for three days, you get an idea in ten minutes. So three days of failure, ten minutes of success! The solution is to make students love the challenge. But in a system focused on success, this is not possible"

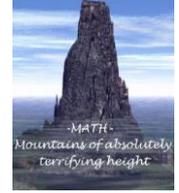
Since the students compete against time in the general exams in our country, the narration of the subjects evolves into a more superficial and rote approach without fully understanding the logic of the subject. Our curriculum program is handled in all high school types within the framework of common subject, time and schedule (vocational high school, plain high school etc.). This situation negatively affects students who have already failed.





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In order to solve all these situations, various studies and arrangements are made for mathematics teaching and curriculum.

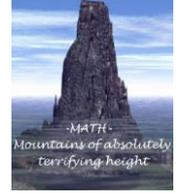
Rapid change in science and technology, changing needs of individual and society, learning innovations and developments in teaching theories and approaches are also expected of individuals directly affected. This change generates knowledge, can function in life, solve problems, critically thoughtful, entrepreneurial, committed, communicative, empathic, collective and cultural contributor etc. defines a person in qualifications. Serving the development of individuals with this quality the curricula to be taught are not merely informational, aimed at acquiring skills, in a simple and understandable structure. For this purpose, one side the exploits and explanations of a repeated spiral approach at different subject and class levels, the learning outputs which are aimed to gain a holistic and a place from the side are given. Both the achievements and explanations in the group are also given in the competent, up-to-date, relationships with life can be established. The explanations, classes and a view that provides integrity in terms of values, skills and competencies at the level of education levels it points to a lean content in terms of the point of view. Thus, the use of metacognitive skills, to provide meaningful and lasting learning, to be associated with sound and previous learning, with other disciplines and a collection of integrated curricula around daily life, values, skills and competences It was formed.





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All studies carried out with education and training programs; preschool, primary education and complementary to each other in secondary education levels.

1. Considering the individual development process of the students who have completed the pre-school education support healthy development in physical, mental and emotional areas
2. Moral integrity in accordance with the level of development of the students completing primary school and their individuality and in the framework of self-awareness, self-confidence and self-discipline, have gained social skills and aesthetic sensitivity with verbal, numerical and scientific reasoning at the level use them effectively and ensure that they are healthy life oriented.
3. Students who have completed high school are encouraged to develop their competencies.

No person is exactly the same as another. Therefore, it is contrary to the nature of human beings that the curricula and the measurement and evaluation process are valid and standard for everyone. For this reason, it is necessary to act with maximum understanding and flexibility in the measurement and evaluation process. The curriculum is a guide in this respect. Expecting the curriculum to include all elements of assessment cannot be considered as a realistic expectation. Diversity in education; As the individual, education level, course content, social environment, school facilities, etc. are severely affected by internal and external dynamics, the priority in ensuring the effectiveness of measurement and

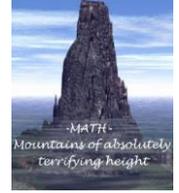
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evaluation practices is expected from teachers and training practitioners. At this point, originality and creativity are the main expectations from teachers.(Turkey Ministry of National Education decision dated 17/07/2017 and numbered 92)

In our country, various projects have started to be implemented to integrate technology into our lessons.

One of them is the EBA (educational informatics network) platform: Education Information Network, which is the gateway to the future of education, is an online social education platform offered free of charge to each individual by the General Directorate of innovation and educational technologies.

Education is an integral part of life. This platform enables the training to be carried out outside the four walls. The purpose of this platform is to support the use of effective materials through information technology and to integrate technology into education. EBA offers reliable and reviewed e-content that is appropriate to grade levels and continues to evolve following innovations in education and technology.

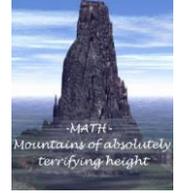
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The second is the FATİH (movement to increase opportunities and improve technology) project: The FATİH Project in education was initiated for the effective use of information technology tools in the learning-teaching process to address more sensory organs in order to ensure equal opportunities in education and training and to improve technology in our schools. It is aimed to provide information technology (IT) equipment that can support education to all schools, classrooms, teachers and students within the scope of FATİH Project. In this context, it has been observed that the "Information Technology classes" that have been set up before have fulfilled their duty properly, but that only one class equipped with IT equipment in our schools has not been able to fully respond to the need. In this context, every classroom needs to be equipped with a smartboard so that all our teachers at the school can use IT equipment simultaneously to support their classes. As a result of this research, it was observed that the device that should be in classrooms should be a device that can be used by teachers and students who are old generation green board, new generation smartboard, who do not need technical knowledge, who have a simple structure, who can appeal to individuals of our age and who have As a result of the analysis and Development Studies, the definition of "green board, whiteboard, LED screen and computer consisting of sliding whiteboard. Most schools now have smart boards.

<http://fatihprojesi.meb.gov.tr/>



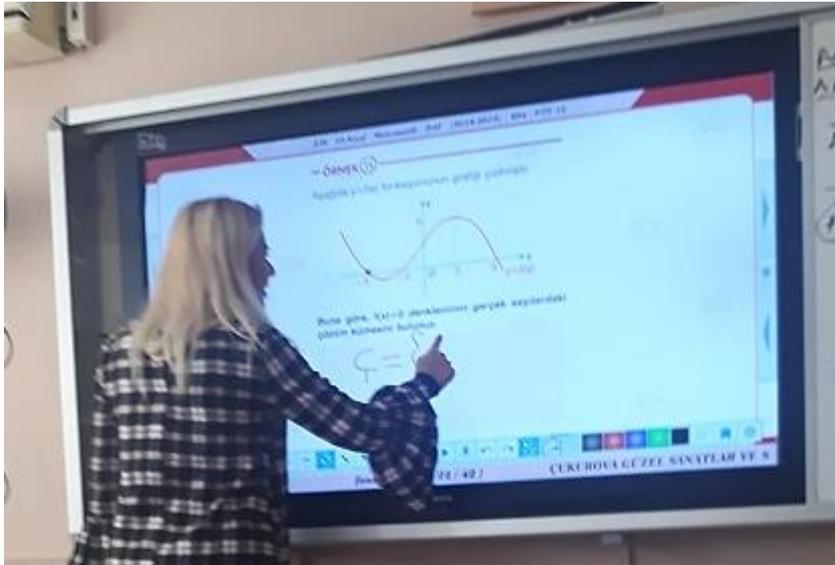
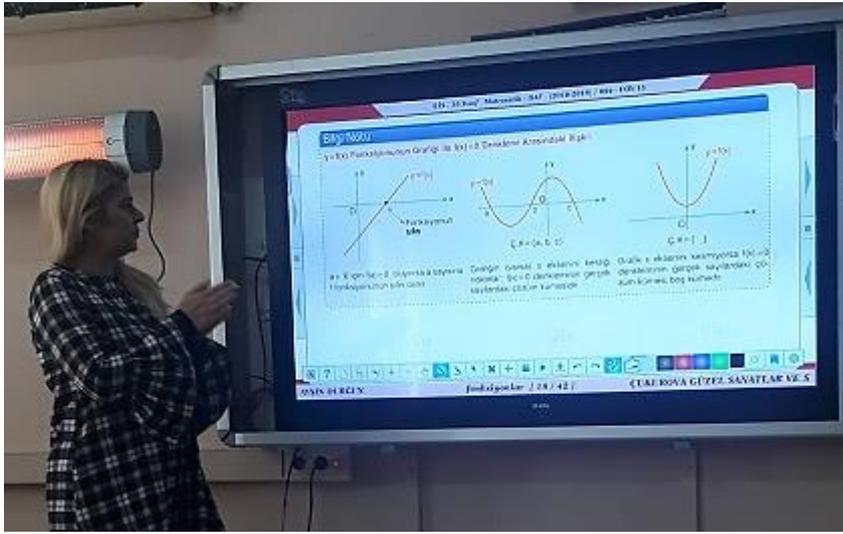
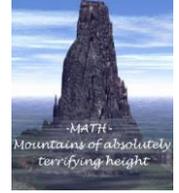


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Teach a lesson with Smartboard

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