

K2U MATHS FOUNDATIONAL PROGRAM

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The reason most children struggle to achieve in high-school mathematics can be boiled down to the fact that their foundational numeracy and algebraic skills have not been correctly laid down in their primary school years.

These lessons ensure that every child is given the best possible chance to enter high school fully equipped with all the skills they need to understand and master the high school maths curriculum.

A child who fully masters the K2U Foundational Maths Program will find him/herself able to not only completely understand the work in class but able to really focus on achieving the best marks possible, right through their high school years. They will develop a love and excitement for maths that is mostly unheard of in our schools.

The program is based on the mathematical skills of the CAPS curriculum yet provides, where necessary, a deeper level of skill and understanding than can normally be achieved in a class. This is a must as many of our top maths achievers find that once in their tertiary studies they really battle to maintain the marks they are used to achieving while at school.

The program is broken up into 8 – 10 minute lessons, daily, in which the class is taught a particular topic and this topic is then practiced every day for the rest of the week to ensure complete mastery of the topic. The lesson is taught by Greg Shapiro on video and administered by the teacher. This is done to ensure uniformity in the teaching. Once the teacher has acquired the skill, they are encouraged to teach the lessons themselves so as to acquire the new skills of teaching Mental Maths to their class. For maximum success it is strongly recommended that a teacher be appointed to monitor the program throughout the school. This teacher will receive special training from K2U in the administration of the program.

Greg Shapiro, the founder of K2U and Chairperson of the Maths & Physics Foundation (NPO), has spent the last 30 years specialising in coaching young students - especially so-called challenged students – to excel at maths. A more passionate and dedicated educator will be hard to find. He is in the process of training K2U tutors to assist with the administration of the lessons so every child gets the best chance of achieving their full mathematical potential. In this way every teacher will also be empowered with the skills and in time be able to use these skills in his or her class to teach Mental Maths.

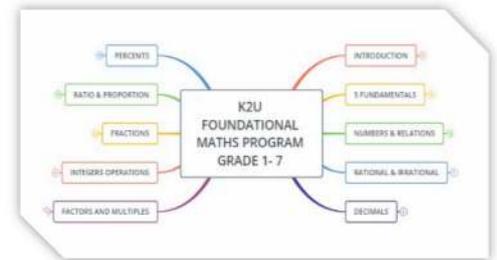
This Foundational Course is the Mental Maths needed for mastery in all the other topics found in the entire high school maths curriculum. It prepares students at a very early age, to take ownership of this subject and to understand its language at a much deeper level, a must for those who want to go on to university.

Our belief is that this program should start as early as possible in the grades and be repeated every year. We recommend that this program be implemented from grade 1 upwards but will of course be valuable to every grade.

Greg's organization is dedicated to developing and implementing solutions that can help students of South Africa overcome the huge barrier they have towards mathematics. He is more than willing to meet with any organization or person who has the same desire to see a dramatic improvement in the overall maths marks and who would like to know more about his methods and programs.

Please feel free to contact us at any time for more information.

Kerryn Shapiro
National Program Coordinator
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www.mapf.co.za



TESTIMONIAL



Greg has taught us to never underestimate the mathematical ability of our children. I brought my grade 1 child to K2U because her teacher said that she was slightly below average and might need some assistance to keep up. In a matter of a few weeks Greg, amongst other things, helped my little Grade 1 master her 12 times tables, recall the algebraic laws of algebra, and master her bonds.

But what I feel is one of the most important benefit to me, was my child's new sense of confidence and commitment to learning. I have seen this spill over into all her other subjects. I can't recommend this course enough! It has been worth every cent!

Please Note: For protection and privacy reason we have not uploaded the above student onto YouTube but will be willing to share the amazing videos of her accomplishment on request.

<p>Numbers and Relations</p> <ul style="list-style-type: none">What is an integerPlace valueNegative numbers and opposite numbersComparing and ordering numbersRounding numbersUnderstanding the number systems .Upper and lower bound <p>Rational and Irrational Numbers</p> <ul style="list-style-type: none">Comparing and ordering rational numbers .Solving problems with rational numbers in decimal formSolving problems with rational numbers in fraction formDetermine square roots of rational numbersRational vs. Irrational numbers <p>Decimals</p> <ul style="list-style-type: none">Adding and subtracting decimalsMultiplying decimalsDividing decimalsOrder of operations (PEMDAS)Converting repeating decimals to fractions <p>Factors and Multiples</p> <ul style="list-style-type: none">Divisibility rulesDetermining common multiplesDetermining common factorsPrime factorizationGreatest common factors (GCF)Least common multiple (LCM) . <p>Adding and Subtracting Integers</p> <ul style="list-style-type: none">Introduction to integer additionAdding integersIntroduction to integer subtractionSubtracting integersApplication of integer operations <p>Multiplying and Dividing Integers</p> <ul style="list-style-type: none">Understanding integer multiplicationMultiplying integersUnderstanding integer divisionDividing integersApplications of integer operations	<p>Fractions</p> <ul style="list-style-type: none">Using models to add and subtract fractionsAdding fractions with like denominatorsSubtracting fractions with like denominatorsAdding and subtracting fractions with unlike denominatorsAdding and subtracting mixed numbersMultiplying fractions and whole numbers .Dividing fractions with whole numbersMultiplying proper fractionsMultiplying improper fractions and mixed numbersDividing fractions and mixed numbersApplications of fraction operations <p>Rates, Ratios, and Proportions</p> <ul style="list-style-type: none">What is ratio?Ratios .Applications of ratiosRatesRates with fractionsProportionsConverting among ratios, fractions and decimals <p>Percents</p> <ul style="list-style-type: none">Representing percentsConverting among decimals, fractions, and percentsApplications of percentsRepresenting percents.Percents, fractions, and decimalsPercent of a numberAdding and multiplying percentsTaxes, discounts, tips and moreSimple interest
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