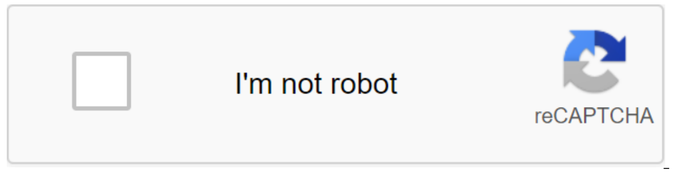

Continue

Shodhganga mathematics project pdf

On July 20, 1969, the world watched with surprise as Neil Armstrong became the first man to set foot on the moon. This was the result of years of work and ingenuity on the part of scientists, engineers, programmers, mathematicians and astronauts. In photos taken at NASA's Mission Control Center on that historic day, you can see people applauding, waving American flags. But you won't see diversity. Where are the women? Where are the people of color? Where are the hidden figures? If you look at the pictures, you'd think that only one race and one gender orchestrated the moon landing, but it's not. The film Hidden Figures showed the world what many people already knew: talent is everywhere, but there is no possibility. Stem diversity begins in class We now know that women of color and people of color have made a significant contribution to the Apollo 11 mission. Margaret Hamilton, a leading flight software developer, led the team that wrote the code for the Apollo command module computer, and in the process invented many of the basic ideas of modern computing. Katherine Johnson, a NASA computer mathematician and one of the hidden figures featured in the book and film, helped calculate the trajectory of the Apollo 11 mission. But it's only recently that these women have received the credit and public recognition they deserve. As a society, we can do better. Fifty years have passed since Neil Armstrong took one small step for man, one giant leap for humanity, and only 26% of American workers in math and computer science are women, according to a 2018 report by the National Science Council. A 2017 report by the National Science Foundation found that only 12 percent of working scientists and engineers in the U.S. are women of color. These data suggest that if we were to take a picture today at NASA's Mission Control Center, they wouldn't look much different from what we saw in 1969.To change the demographics of the STEM workforce, we need to change the demographics of the STEM class. We do not recognize (and do not support) many hidden figures with STEM talent. I saw it firsthand when I was teaching low-income children in Harlem many years ago. My students in Harlem were as smart, curious, and capable as children in high-level schools. However, they did not have access to the tools and resources that their more privileged colleagues used throughout their lives. Our common future depends on ensuring that every child, regardless of gender, race or postcode, receives a quality education to address some of the world's most important problems. Many of these problems disproportionately affect communities of color, and solutions rely on STEM. If we don't have women and minorities weighing on issues such as toxic chemical dumps and climate (let's name a few), we'll probably see, see authorities make decisions that do not take different points of view. Why Mathematical Education Is Important To Empower in STEM, We Need to Start With Improving Mathematical Education. We don't know what the next lunar shot will be, but we do know that the math will be involved. Frankly, math is important for every profession, but many students struggle more in math than in any other subject. And this has very little to do with their abilities; it's more about how we teach math. We need to challenge every student to think deeply about mathematics. All teaching guardians - teachers, parents and administrators - must also recognize that encouraging students to persevere can help them with the difficulties of their qualifications. We need to develop the trust of students as well as their competence in mathematics. This requires us to question whether we are creating learning environments and experiences that give students the math instructions they need to feel ready to enter the labour market. It's not about teaching them to survive the next century or even just thrive in it. When using gaming-level technology, new educational tools, such as intelligent adaptive learning technologies, have the right to level the playing field for students and instill in all children a love of mathematics that opens up different STEM careers. The traditional model of teaching students with a universal method may have got us to the moon for the first time. But today the world faces many challenges that require us to change the way children learn. One of the reasons why I am happy to come to work every day in DreamBox learning is because I believe in empowering students with personalized learning experiences that meet their unique needs. It is not in our interest to have some students advance while others fall behind. We need to create a learning experience that allows all students to progress in their own course, not anyone else's, if we are to encourage children to develop love and understanding of mathematics. As we celebrate the 50th anniversary of the Apollo moon landing and look forward to the next 50 years of technological innovation, we must ask ourselves: Are we doing enough to make the future brighter for all? Do we teach children to learn math and love it? Are we developing a more diverse STEM workforce? Judging by the statistics on women and minorities in STEM, the answer is no yet. That's why it's up to us to use all available tools to get more kids interested in STEM from an early age, so that we can unlock more diverse, inclusive and a future for all. Jesse Woolley-Wilson is CEO and President of DreamBox Learning. Want a fun, exciting and fruitful career? If you're good with numbers and enjoy enjoy Then you can be perfect for a math degree! An online math degree can prepare you for dozens of number crunch careers. Mathematics teaches logical thinking and problem-solving skills. Mathematics graduates excel in quantitative research and analysis. These skills can be overworked in a number of career areas such as economics, finance, insurance and business. While career options are varied, paying for math majors is usually very good. According to the research survey, the average starting salary for those with a bachelor's degree in mathematics is high, and, according to the National Association of Colleges and Employers, the top 15 highest-paid college majors are all math in their basic study plans, usually applied math, as practiced by engineers. Mathematics major degrees can be expected to do about 40% more than an English major. CAREER PATHFew offer a wide range of opportunities that you will find when you complete your maths studies. Almost every employer in the country needs such a skill, and almost all industries have a need for mathematical experts. You can, of course, work in obvious mathematical positions, such as mathematician or statistician. However, you can also work in almost any industry as an accountant, economist or budget analyst. Virtually any job that includes numbers will call for a math major. There are many advantages to majoring in mathematics; some are obvious and others are not. One of the less obvious advantages, but one that certainly needs to be discussed, is the ability to work in almost any industry in the country. Want to work in sports? The degree math gives you the basis to work in the complex analytics and statistics that dominate professional sports. Want to work in music? This industry needs accountants and budget analysts, just like any market. Entertainment, construction, automotive, real estate; there is actually no industry you can call that doesn't need math majors! Mathematics teachers are in high demand, especially in high school. Many jobs in maths not only pay well, they also have strong expected job growth, meaning there will be many opportunities in the future. Let's look at some specific details of two high-paying jobs that you could hold if you complete a math degree program. Actuary - What is the cost and reward of taking risks? Finding an answer to this complex question is the sole responsibility of actuaries. These professionals are usually employed in the insurance industry, helping suppliers estimate the best price for some Coatings. However, they can also be hired by professional and technical services, helping companies weigh risks and use statistical information to make business decisions. With only a bachelor's degree, you can enter a field that has salary of $101,560, which is a significant income no matter where you live. If you're working your way into the top 10%, you can expect to earn more than $184,770. With a career growth of 22%, it is a career that will have excellent opportunities in the future. Economist- This is another career choice that is incredibly versatile and can be found in almost industry. Economists research economic factors, analyze data, and provide information to clients and organizational leaders, all to help them make informed financial decisions. Historical trends are often used to predict future conditions that can help companies make good decisions. This career has a strong average salary, but if you are able to enter the top 10%, you can expect to earn over $172,580 a year. The expected job growth is only 6%, but this is only slightly lower than the national average (7%) and only slightly lower than the national average (7%). and economists will have more than 22,000 jobs in 2026, so there's still room for that career. WHO IS THE IDEAL CANDIDATE? Some people take math more easily than others, and while a natural skill with numbers is a good start, it's not the only thing that makes an ideal candidate for a math degree. Enjoying the problem-solving process is important and you should also be prepared to take on challenges and not get upset when you don't get it right on the first move; in other words, perseverance is an underrated quality for mathematical specialties. You should also enjoy many types of mathematics, including algebra, statistics, accounting and computer science, as they will all be considered during your math degree. WHAT SHOULD I LOOK FOR? Mathematical degrees have many real applications. Most online math programs, especially at the certificate and master's level, focus on practical or applied mathematics, as opposed to theoretical mathematics. The most popular specialty offered by online programs is statistics. Probability and statistics play a crucial role in science and technology. Discrete mathematics, the study of probability, is an important mathematics for those who are planning a career in computer programming, engineering, finance and economics. Many mathematical online programs include economics and computer science in their curriculum. More and more employers want to hire mathematicians with financial knowledge or programming experience. Similar popular math specialties include an online degree of quality (for engineers), an online finance degree and an online engineering degree. COSTReady make the leap? Click on the program below for more information on training, accreditation and Requirements. Compare the costs of carefully-many programs cost less than the national average (between $30,000 and $50,000 for a bachelor's degree), but many are more expensive! More! More! shodhganga mathematics project pdf. shodhganga project topics in mathematics