

Tuen Mun Catholic Secondary School
Mathematics LAC Books (2013-2014)

1. Book: **Math Girls**

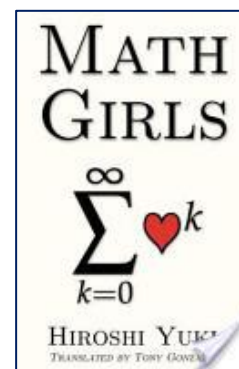
Author: Hiroshi Yuki

Translator: Tony Gonzalez

Publisher: Bento Books

ISBN: 9780983951308

Introduction:



Currently in its twentieth printing in Japan, this best-selling novel is available in English at last. Math Girls is a fun read. It combines mathematical rigor with light romance. The unnamed narrator shows great interest in Mathematics and meets a new classmate, a girl named Miruka, at the start of his first year of high school. Without introducing herself, she gives him the beginning to number sequences, to which he answers with their continuation. One year later, the narrator receives a letter by another girl, a new student named Tetra, who suffers from mathematical anxiety, and approaches the narrator to ask him to tutor her in math. He begins teaching her, making Miruka jealous. The narrator balances his friendship with Tetra and his romantic interest in Miruka until Miruka and Tetra become friends after Tetra demonstrates her dedication to learning mathematics. Together they explore the world of mathematics by helping each other solve problems spanning a wide range of difficulty, from extensions of high school mathematics to extremely difficult problems previously addressed by famous mathematicians.

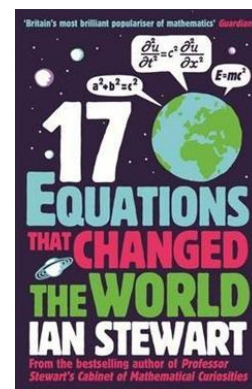
2. Book: **17 EQUATIONS THAT CHANGED THE WORLD**

Author: IAN STEWART

Publisher: PROFILE

ISBN: 9781846685316

Introduction:



We learned to solve some simple equations in F.1 but have you ever imagined that an equation, a line consisting of numbers, symbols and an equality has the power to change the course of humanity? In the book “17 Equations that changed the world”, the author introduces us some equations that have significant meaning to the human history. For example, the famous “ $E=mc^2$ ” from Einstein’s theory of relativity. The equation is important as it shows that a little bit of mass (m) can be converted into a huge amount of energy (E). It is this equation that led to atom bombs and nuclear plants. The book not only covers the math and the meaning of the equation but also some interesting stories behind the discovery of it.

Why are equations so powerful? That is because we use numbers to describe our world. For example, you are 14 years and 1.5m tall. 14 and 1.5 are numbers describing you. An equation tells you the relations between these numbers, and even predicts what happens if these numbers are changing. Mathematics is a language to describe the world. If you want to know how this language shapes our world, come and take a look at “17 Equations that changed the world”, you may have learned a few equations in the book!!

Mathematics LAC Books

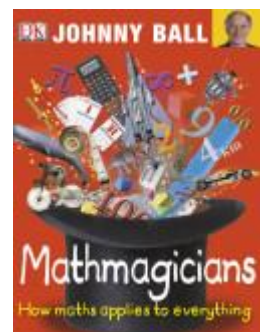
3. Book: Mathmagicians

Author: Johnny Ball

Publisher: Dorling Kindersley

ISBN: 978-1-40533-727-4

Introduction:



This book tells us how Mathematics is applied throughout the history of mankind. It tells us stories about how people measure things that we see and things that we cannot see – from how the ancient people measured time accurately using the stars, measured the size of the earth using a well ...etc., to scientists discovering gravity, voyagers turning a spherical world into a flat map, to the technique of measuring things using colour and measuring time using atomic vibrations.

This book is easy to read and full of interesting information that you know and you don't know. Moreover, this book teaches you how to make things such as a “star clock”, and introduces a practical joke that you can play on nosy people.

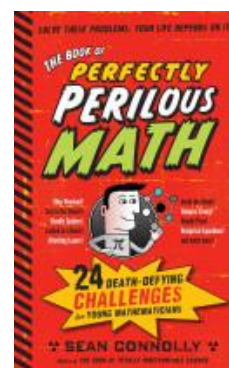
4. Book: THE BOOK OF PERFECTLY PERILOUS MATH

Author: SEAN CONNOLLY

Publisher: WORKMAN

ISBN: 9780761163749

Introduction:



The book of Perfectly Perilous Math contained 24 challenges which draw you into a world where all those math lessons meet real life. You're faced with a tough, maybe even do-or-die, problem that needs to be solved quickly. Survival depends on finding a correct result. How many months would it take a single vampire to completely take over a town of 500, 000 people? How long can a barrel of fresh water last before five shipwrecked sailors go mad from thirst? These problems are as fun to read as they are challenging to solve. They test readers on fractions, algebra, geometry, probability, expressions and equations, and more. You will love solving these problems.

5. Book: **MURDEROUS MATHS: DO YOU FEEL LUCKY?**

Author: KJARTAN POSKITT

Publisher: SCHOLASTIC LTD

ISBN: 9781407107127

Introduction:

How likely is it that you could learn to love maths? What are the chances of your boring maths class being cancelled today? How about winning the lottery tomorrow or going on a school trip to the Bahamas? Don't fancy your chances?

Well, i probability puts you in a panic, this is the Murderous Maths book for you! The author uses a series of hilarious characters to present all the tricks, tips and shortcuts to probability that students don't come across or learn at school.

