Your challenge is to decode the following message:

XJIBMVOPGVODJIN! TJP EPNO NJGQZY BMVIYZ KMVDMDZ KPWGDX GDWMVMT'N ADMNO XJYZ XMVXFZM XCVGGZIBZ!

SEND YOUR SOLUTION TO KDEWAAL@GPPL.CA TO BE ENTERED INTO OUR PRIZE DRAW

DEADLINE: NOVEMBER 1ST

WHAT IS CRYPTOGRAPHY?

Modern cryptography combines computer science, math, electrical engineering, and other systems to encode information. However, cryptography began with people needing to write down secrets in the analog world.

Through cryptography, someone can convert the actual message (called 'plaintext') into something nonsensical (called 'ciphertext'). Once the code is cracked, you can also transform that ciphertext back into plaintext.

CRACKER CHALLENGE **GRANDE PRAIRIE** PUBLIC LIBRARY **DISCOVER THE POSSIBILITIES**

If you want to learn more about cryptography, this book might be one place to start.

T# LNIH

. retter. letter is substituted by another a simple subsititution cipher, each message with different letters. In substituting the letters of a A substitution cipher functions by

.sbrow have bits and pieces of other you solve one word, you will also time 'J' would occur. Therefore, if might be substituted for 'J' every Enberitution cipher the letter 'E' For example, in a simple

5# TNIH

2995 What combinations do you expect to Separation the English language? probability. What letters show up solved with the help of Substitution ciphers can often be

persist in the ciphertext version. tent sadens ant no based sassaug might be able to make educated spaces or punctuation marks, you If an encoded message includes

· aboo foothold you need to crack the spostrophes might give you the Common 3-letter words or

you encode your message? ob woh .ebned ymene otni liet ment need to convey, but you can't let years ago. You have secrets you Koman Republic approximately 2000 Imagine you are a general in the

E# INIH

Caesar Cipher. and so on. This is known as a ', J, pecame , D, ', B, pecame , E, ' the alphabet were transposed. That cipher whereby all the letters in suite, Julius Caesar devised a According to Roman historian

.bezoqenst pnied , because of the number letters also inter that 'V' always becomes ,, simsys becomes 'L', you can does not change. If you know that pecause the order of the alphabet crack the code is a single letter, brute force alone. All you need to solutions, so it can be solved by Cipher, there are only 25 possible When trying to solve a Caesar

recognizable word? a ofni 'qUT' mrofenert bluow encoded message. What transposition Consider the 3-letter word in the 1 will actually make sense. Of the 25 possible solutions, only

Get cracking!

FEATURED BOOKS

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OF ROME

BIOGRAPHY

Emperor of Rome

by Mary Beard



biography is also a clue on how to decode the secret message.



Codes and

Ciphers by Adrian

Gilbert

NON-FICTION

JUVENILE

J 652.8 GIL