BLOOMFIELD HALL SCIENCE SOCIETY PRESENTS

OLYMPIAD

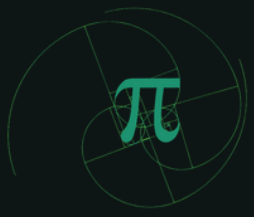
BHSS PESHAWAR

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STUDY GUIDE

AL KHWARIZMI'S EQUATIONS

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Mathematics is about far more than numbers on a page. Prepare for a competition where strategic instincts, mathematical creativity, and unconventional thinking take centre stage. From a familiar card-based challenge with an unexpected twist to Formula Archery, where teams construct mathematical expressions to hit numerical targets, every round will push participants to explore possibilities beyond the obvious. The final challenge takes things even further, combining demanding mathematical problems with ingenious recreational puzzles. Precision, ingenuity, and the ability to approach unfamiliar problems will separate the contenders from the rest.

Round 1:
The competition kicks off with a familiar challenge, but with an unexpected twist. Building upon the card game activity featured in the previous Olympiad's final round, this round introduces a new element that will put participants' mathematical instincts, strategic thinking, and ability to make calculated decisions to the test. While the fundamentals may seem familiar, teams should be prepared for an entirely different experience. The details of this round will remain a surprise until the competition begins.

Round 2:
Put your mathematical creativity to the test in a challenge where numbers become your ammunition and mathematical operations become your tools. Teams will be presented with a range of numerical targets, each carrying a different point value. Using a given set of digits and mathematical operations such as factorials, exponents, addition, subtraction, and more, teams must construct expressions that hit their desired targets. Precision, creativity, and the ability to recognise unconventional mathematical possibilities will be essential.

Round 3:
The final round takes mathematics beyond familiar methods and conventional approaches. Participants will encounter a diverse collection of challenging mathematical problems, thought-provoking puzzles, and unconventional questions designed to test their reasoning and problem-solving abilities. From mathematical curiosities and clever numerical challenges to problems demanding deeper insight and creative approaches, this round will reward those who can think critically, recognise patterns, and explore solutions beyond the obvious.

Note: Participants must be ready to apply math concepts from O levels, A levels and Further math. However, the activities reward quick thinking and problem-solving skills more