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THE DAILY SPECIAL

Count on a career full of excitement

People who develop quantitative skills can expect to garner top jobs with a high rate of satisfaction

ne question I often get asked is,
"What careers could I have with
and the gree?" In this year's
Careercast "JobsRated.com" survey of
200 occupations, the top three jobs
were mathematician, actuary, and statistician. And, in a sign of what the future holds, five of the next seven top
jobs all require strong mathematical
skills. These rankings, developed by analyzing a large number of factors including working conditions, competitiveness, hiring outlook and physical
exertion, underscore the transformation underway in our society to one in
which the generation and application
of knowledge are increasingly highly
prized. Those with quantitative skills
will increasingly be in a position to garner the best careers leading to the highest rate of job satisfaction.
But if you're under the impression
that jobs that use mathematics are the
ones that are dry and dull, you'll be surprised to discover the vast array of opportunities available. Consider these
interesting options:

In addition to incredible physical and



Playwright/actor/entertainer

Entertainment is laced with mathematics on the screen and behind the scenes, from the mathematicians who consult for the show Numb3rs, to CBC TV host Jennifer Gardy, Bill Nye the Science Guy, and the stars of Mythbusters. A phenomenal example: John Mighton, Canadian playwright, author, mathematician, and educator, has written several math-themed plays. He was in the movie Good Will Hunting with Robin Williams and Matt Damon. And lately his acclaimed program Jump Math has shown that all kids can do mathematics. Of science and art, Mighton has said, "If the two worlds communicated more, we'd have much richer art and science as a result."

Blowing things up can be fun and exciting, but it requires a high degree of precision and accuracy. From fireworks displays, to the controlled demolition of buildings, to special effects for movie stunts, lives hang in the balance of the calculations made before the fuses are lit.

Transportation designer

ARVIND GUPTA ANSWERS YOUR MATH QUESTIONS

Hands-on work key to mastering everyday math

PATRICK O'CONNOR
Great answers to the questions about math in this series. I too have noticed many people have problems with basic math in grocery stores. I have seem many puzzled looks as consumers struggle with basic concepts like converting pounds into kilograms. Also, there is confusion about pints and ounces and what item is the better price. What do you suggest to help families better understand the practical math needed for interest rates, saving money on groceries, and other real life situations?

Hi Patrick,

I think the key to understanding the math we need every day is to use it and apply it repeatedly and practically. Ounces, millilitres, pounds and grams—how do you make sense of it? Por elementary-aged children, they need to

Math Matters

This is the final installment

Many courses provide a teaching as-sistant or open office hours to students. Don't be shy about using both of these resources. All the best!

MATH TIPS | For parents

ther limit or open his options after high

Principles of Math 10 to 12 allows for the

Students entering Grade 10 in September 2009 will be the last to enrol in the current mathematics courses in British Columbia. The three math streams now offered are Principles of Math, Applications of Math, and Essentials of Math. government. It is very important to sit with your child and think carefully about which stream makes the most sense

which stream makes the most sense. Students entering Grade 10 in B.C. in September 2010 or later will be choosing from three new pathways developed by the Western and Northern Canadian Protocol for Collaboration in Basic Education. Alberta, British Columbia, Manitoba, Northwest Territories, Nunavut, Saskatchewan and Yukon together developed the Common Curriculum Framework for Grades 10-12 Mathematics: Western and Northern Canadian Protocol (WNCP).

the WNCP jurisdictions and to enable easi er transfer for students moving from one area to another. The three new mathematics pathways are

Pre-calculus 11 to 12, Foundations of Math 11 to 12 and Apprenticeship and Work-place Mathematics 10 to 12. Grade 10 stucourses: Foundations of Math and Pre-calculus 10, which will lead to either pathway in Grade 11; and Apprenticeship and Workplace Mathematics 10.

The Pre-calculus pathway leads to entry into post-secondary programs that

post-secondary studies in programs that do not require theoretical calculus. Topics include financial mathematics, geometry, measurement, number, logical reasoning, relations and functions, statistics and probability.

The Apprenticeship and Workplace Mathematics pathway leads to entry into the majority of trades and direct entry into the workforce. Topics include algebra,

The seven ministries of education collaborated with teachers, administrators, parent ents, business representatives, post-secondary educators and others to develop the framework. The purpose was to develop consistent student outcomes across the WNCP invisidictions and to enable eastgrams, as they vary by institution

If your child will be entering Grade 10 after September 2010, it is very important that you become familiar with the