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Being (hereinafter WMCF) is  
a book by George Lakoff, a

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cognitive linguist, and  
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argues that conceptual

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that it cannot be considered  
as a subject or science. We  
are looking for sources of  
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human ac- tivity.

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thinking. Other scientists  
are finding that certain  
math capabilities vary by  
culture and depend on how we  
interact with the world.

The Brain or the Universe -  
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xi) to discover where our  
mathematical ideas come  
from. This book introduces  
the discipline of  
"mathematical idea  
analysis:" how our  
understanding of human  
cognitive processes can

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account for the development  
of mathematical ideas. Their  
thesis is that virtually all  
mathematical ideas arise as  
metaphors.

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So where did this idea of mastery and mathematics come from? Fortunately, the modern adoption of the term is well documented. The idea of mastery learning goes back to the 1960s, when

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Benjamin Bloom had a novel idea: if learners don't get something the first time, then teach them again and in different ways until they do.

Where did maths mastery come

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What makes mathematics  
nonarbitrary is that it uses  
the basic conceptual  
mechanisms of the embodied  
human mind as it has evolved  
in the real world.

Mathematics is a product of

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the neural capacities of our brains, the nature of our bodies, our evolution, our environment, and our long social and cultural history."

Where Mathematics Come From:

*Page 32/83*



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Mathematics (from Greek:  
Lakoff  
??????, máthēma, 'knowledge,  
study, learning') includes  
the study of such topics as  
quantity (number theory),  
structure (), space (), and

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change (mathematical  
analysis). It has no  
generally accepted  
definition.. Mathematicians  
seek and use patterns to  
formulate new conjectures;  
they resolve the truth or  
falsity of such by

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The word comes from the  
Greek ??????????

(math?matik?) and means  
"concerning learning". The  
following explanation is

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told about its coming into  
use: Pythagoras of Samos  
founded a school of...

Where did the word  
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Answers

Mathematics is a product of

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the neural capacities of our brains, the nature of our bodies, our evolution, our environment, and our long social and cultural history.

(page 9) - 6 - In Part V of the book the authors expand on this summary and proceed

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to dismiss (or “disconfirm” )  
other philosophies of  
mathematics.

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January 2001 [maths]Suppose

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you put  $\pounds 1$  in a bank. The bank pays  $4\%$  interest a year, and this is credited to your account at the end of a year. A little thought shows that at the end of five years an amount of money equal to

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$\pounds(1+0.04)^5$  will sit in the bank (this bank charges no fees).  
However, if the interest (still at an annual rate of 4%) was "compounded" every ...



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analysis of the cognitive  
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Unfortunately, what is

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sometimes studied at school  
under the name  
'mathematics' resembles  
real mathematics not any  
closer than a plucked flower  
gathering dust in a  
herbarium or pressed between  
the pages of a book



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resembles that same flower  
in the meadow besprinkled  
with dewdrops sparkling in  
the light of the rising sun.

Tries to refine the  
philosophy of mathematics to  
reflect what mathematicians

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really do, and argues that  
mathematics must be  
understood in a social  
context.

"It appears to us that the  
universe is structured in a  
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Why is math so hard? And

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why, despite this  
difficulty, are some people  
so good at it? If there's  
some inborn capacity for  
mathematical thinking—which  
there must be, otherwise no  
one could do it —why can't  
we all do it well? Keith

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manipulating ability that  
was so crucial to the  
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as well as we can speak? The  
answer, says Devlin, is that  
we can and do—we just don't  
recognize when we're using

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To many outsiders,  
mathematicians appear to  
think like computers, grimly  
grinding away with a strict  
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methodically--even

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algorithmically--from one  
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ideas developed in different  
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