

National Mathematics Advisory Panel

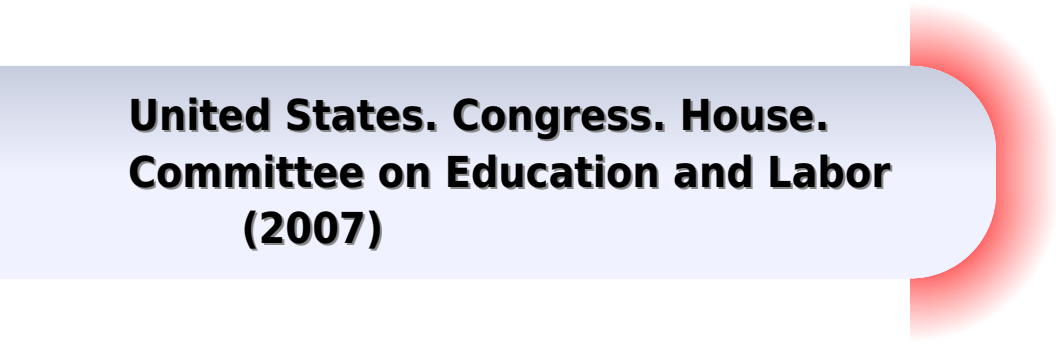
Final Report: March 13, 2008

“There is not a sufficient number of studies with children of various ages and grades to draw strong conclusions about schooling and mathematical development, but the research that has been conducted thus far suggests a similar pattern, that is, decreased involvement of the prefrontal/working memory regions and increased involvement of the angular gyrus with increasing grade level and mathematical experience”.

Author (March 8, 2008). DRAFT Task Group Reports of the National Mathematics Advisory Panel: Report of the Task Group on Learning Processes. From:
<http://www.ed.gov/about/bdscomm/list/mathpanel/report/learning-processes.pdf>

Mathematics Advisory Panel Report

**United States. Congress. House.
Committee on Education and Labor
(2007)**



Mathematics Advisory Panel Report:

The National Mathematics Advisory Panel Report United States House of Representatives, Committee on Education and Labor (house), United S. Congress, 2019-09-18 The National Mathematics Advisory panel report Foundations for success hearing before the Committee on Education and Labor U S House of Representatives One Hundred Tenth Congress second session hearing held in Washington DC May 21 2008 *The National Mathematics Advisory Panel Report* :. United States. Congress. House. Committee on Education and Labor, 2008 **Foundations for Success** United States. National Mathematics Advisory Panel, 2008 The National Mathematics Advisory Panel Report United States Congress House of Repre, 2025-05-22 The BiblioGov Project is an effort to expand awareness of the public documents and records of the U S Government via print publications In broadening the public understanding of government and its work an enlightened democracy can grow and prosper Ranging from historic Congressional Bills to the most recent Budget of the United States Government the BiblioGov Project spans a wealth of government information These works are now made available through an environmentally friendly print on demand basis using only what is necessary to meet the required demands of an interested public We invite you to learn of the records of the U S Government heightening the knowledge and debate that can lead from such publications This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact and remains as true to the original work as possible Therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work As a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant **The National Mathematics Advisory Panel Report** United States Congress House of Represen, 2015-02-14 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact and remains as true to the original work as possible Therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work As a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc Scholars believe and we concur that this work

is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant National Mathematics Advisory Panel Preliminary Report Department of Education (ED),2007 The National Mathematics Advisory Panel was established within the Department of Education as part of the President s American Competitiveness Initiative through Executive Order 13398 April 18 2006 This document fulfills the obligation of that order to issue a Preliminary Report no later than January 31 2007 The Panel chose to divide into task groups focused on detailed examination of particular areas relevant to the Executive Order and other areas of inquiry The full range of issues will be covered in a phased process with new efforts being undertaken as earlier issues are completed The four task groups that have been active in this phase all deal with critical elements of mathematics education 1 Learning Processes 2 Conceptual Knowledge and Skills 3 Instructional Practices and Materials and 4 Teachers and Teacher Education In addition the Panel created two subcommittees to address a the development of a stated approach concerning standards of evidence and b a plan for a survey of teachers in the field At the time this report was accepted progress was described as follows 1 All four task groups are currently engaged in their tasks and are in the process of examining relevant literature and materials it is premature for the Panel to convey major findings and conclusions at this time 2 Subcommittee on Standards of Evidence has made progress toward a guide for use by the task groups as they address their issues and the pertinent evidence methodological principles and details will be refined as members use them in reviews of the research and 3 Subcommittee on the Survey of Teachers has developed goals for the planned survey As the present agenda unfolds the Panel expects to take up parts of the President s charge that cannot be covered with the current task groups Appendixes include 1 Presidential Executive Order and 2 Panel Meetings

Foundations for Success Department of Education, Washington, DC.,2008 On March 13 2008 the National Mathematics Advisory Panel submitted its Final Report to the President of the United States and the Secretary of Education and it was officially released to the public on that date as well The Panel agrees that the delivery system in mathematics education the system that translates mathematical knowledge into value and ability for the next generation is broken and must be fixed This is not a conclusion about any single element of the system It is about how the many parts do not now work together to achieve a result worthy of this country s values and ambitions In this report the Panel suggest that America has genuine opportunities for improvement in mathematics education This report lays out many concrete steps that can be taken now toward significantly improved mathematics education the essence of the Panel s message is to put first things first The six recommendations for making improvements include 1 The mathematics curriculum in Grades PreK 8 should be streamlined and should emphasize a well defined set of the most critical topics in the early grades 2 Use should be made of what is clearly known from rigorous research about how children learn especially by recognizing a the advantages for children in having a strong start b the mutually reinforcing benefits of conceptual understanding procedural fluency and

automatic i.e quick and effortless recall of facts and c that effort not just inherent talent counts in mathematical achievement

3 Citizens and their educational leadership should recognize mathematically knowledgeable classroom teachers as having a central role in mathematics education and should encourage rigorously evaluated initiatives for attracting and appropriately preparing prospective teachers and for evaluating and retaining effective teachers

4 Instructional practice should be informed by high quality research when available and by the best professional judgment and experience of accomplished classroom teachers

5 National Assessment of Educational Progress NAEP and state assessments should be improved in quality and should carry increased emphasis on the most critical knowledge and skills leading to Algebra and

6 The nation must continue to build capacity for more rigorous research in education so that it can inform policy and practice more effectively

The following are appended

1 Presidential Executive Order 13398

2 Rosters of Panel Members Staff and Consultants

3 Organization and Operation of the Panel

4 Dates and Locations of Meetings and

5 Rosters of Task Groups and Subcommittees

Contains 3 tables and 16 footnotes

This report was produced for the U S Department of Education by Widmeyer Communications and Abt Associates Inc

It was developed and adopted by the members of the National Mathematics Advisory Panel

The National Mathematics Advisory Panel Report United States. Congress. House. Committee on Education and Labor,2008

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