How Students Learn









MATHEMATICS
IN THE
CLASSROOM



How do you get a fourth-grader excited about math? How do you even begin to persuade high school students that mathematical functions are relevant to their everyday lives? In this volume, practical questions that confront every classroom teacher are addressed using the latest exciting research on cognition, teaching, and learning.

How Students Learn: Mathematics in the Classroom builds on the discoveries detailed in the best-selling How People Learn. Now these findings are presented in a way that teachers can use immediately, to revitalize their work in the classroom for even greater effectiveness.

Organized for utility, the book explores how the principles of learning can be applied in teaching math topics at three levels: elementary, middle, and high school. Leading educators explain in detail how they developed successful curricula and teaching approaches, presenting strategies that serve as models for curriculum development and classroom instruction. Their recounting of personal teaching experiences lends strength and warmth to this volume.

The book shows how to overcome the difficulties in teaching math to generate real insight and reasoning in math students. It also features illustrated suggestions for classroom activities.

How Students Learn offers a highly useful blend of principle and practice. It will be important not only to teachers, administrators, curriculum designers, and teacher educators, but also to parents and the larger community concerned about children's education.

Also of Interest

How People Learn: Brain. Mind. Experience, and School: Expanded Edition 0-309-07036-8 • 385 pages • 7 x 10 • paperback (2000)

Adding It Up: Helping Children Learn Mathematics 0-309-06995-5 • 480 pages • 7 x 10 • hardback (2001)

Helping Children Learn Mathematics 0-309-08431-8 • 52 pages • 7 x 10 • paperback (2002)

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