

# Principles for School Mathematics

## **Equity.**

Excellence in mathematics education requires equity—high expectations and strong support for all students.

## **Curriculum.**

A curriculum is more than a collection of activities: it must be coherent, focused on important mathematics, and well articulated across the grades.

## **Teaching.**

Effective mathematics teaching requires understanding what students know and need to learn and then challenging and supporting them to learn it well.

## **Learning.**

Students must learn mathematics with understanding, actively building new knowledge from experience and prior knowledge.

## **Assessment.**

Assessment should support the learning of important mathematics and furnish useful information to both teachers and students.

## **Technology.**

Technology is essential in teaching and learning mathematics; it influences the mathematics that is taught and enhances students' learning.

# **Standards for School Mathematics**

- **Number and Operations**
  - **Algebra**
  - **Geometry**
  - **Measurement**
  - **Data Analysis and Probability**
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- **Problem Solving**
- **Reasoning and Proof**
- **Communication**
- **Connections**
- **Representation**