

NCTM Principles and Standards for School Mathematics

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NCTM 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.

NCTM Standards for School Mathematics*

Standard 1:	Number and Operations
Standard 2:	Algebra
Standard 3:	Geometry
Standard 4:	Measurement
Standard 5:	Data Analysis and Probability
Standard 6:	Problem Solving
Standard 7:	Reasoning and Proof
Standard 8:	Communication
Standard 9:	Connections
Standard 10:	Representation

* The number assigned to each standard is for easy reference and is not part of each standard's official title.