

DRAFT D90 Vision for Mathematics Education

District 90 believes that all students are capable of achieving high levels of mathematics, and that the following elements are essential for providing the highest quality math learning for all.

High-Quality Learning Environment values:

- a growth mindset
- mistakes and views them as learning opportunities
- student collaboration and discourse
- all learners as individuals and avoids labeling
- multiple approaches to problem-solving

High-Quality Curriculum and Materials:

- are based on the standards
- provide coherent student learning progressions that are vertically and horizontally aligned
- are student-centered
- provide a balance of both content and mathematical practices
- embed student collaboration
- place emphasis on authentic, real-world problem solving
- emphasize application of **both** math skills and concepts (content and practices)
- provide multiple entry points for students
- offer hands-on opportunities and access to a range of tools for problem-solving
- emphasize solving problems in multiple ways

High-Quality Classroom Instruction provides:

- all students access to the same high-quality learning goals
- student collaboration as an established routine
- instruction that is differentiated to meet the range of learners
- flexible grouping opportunities within the classroom setting (not exclusively based on readiness)
- appropriate scaffolds
- high levels of student engagement
- common language across grade levels
- time

High-Quality Assessment Practices provide:

- formative assessments that drive instruction and provide ongoing information
- authentic problem-solving to engage students
- alignment to established learning goals
- opportunities for students to transfer learning to new and novel situations

High-Quality Professional Development includes:

- intentional, meaningful, and timely collaboration
- collaboration across and within grade levels
- research and best practices instruction as drivers for decision-making
- differentiated opportunities to meet the range of teacher needs and interests
- is ongoing