Building Knowledge and Capacity
Building knowledge and capacity involves creating the opportunities and practices that promote the development of a mathematics program. YRDSB, working with educators, building capacity to develop a "New Math" in the classroom.

Learning, Teaching and Assessment
Implementing strategies to ensure that all students are effective problem solvers and critical thinkers who are equipped with fundamental math skills. Students have indicated that the mathematics they learn in class needs to change agents in the math classroom.

Strategies include early and ongoing support and professional development that enhance learning and promote success for all students.

Interventions
Provide support for teachers to think critically about social, political and economic issues in understanding and implementing a Comprehensive Math Program reflecting the interconnections of the Environment, the Learners and the Learning Environment. Create a culture of learning that supports student learning to inform program planning in classrooms and schools.

Family/Community Engagement
Families and communities engage to support educators and programs that support mathematics education. Education values the role of families and communities in supporting student learning.

Resources
Altering resources effectively purposefully and efficiently to focus on what counts most: a key leadership function. Resources have been identified to support the implementation of the Math Strategy.

They are organized into four categories:
1. Core Resources
2. Planning/Curriculum Resources
3. Professional Development Resources
4. Facilities Resources

Context
The York Region District School Board (YRDSB) recognizes that understanding and appreciating mathematics is essential for students in becoming leaders and contributing members of a changing society. Educators recognize the significance of their role in playing an active role in the education of students who are equipped with fundamental math skills. Students have indicated that the mathematics they learn in class needs to be relevant and useful for everyday life and sustained to meet real problems. District, provincial and international assessment results in mathematics consistently indicate the need to focus on thinking and problem-solving skills rather than ineffective memorization and repetition of mathematical facts.

Mathematics Strategy

Building Knowledge and Capacity
Learning, Teaching and Assessment
Interventions
Family/Community Engagement
Resources