

Renewed Math Strategy 2016/2017

WHAT

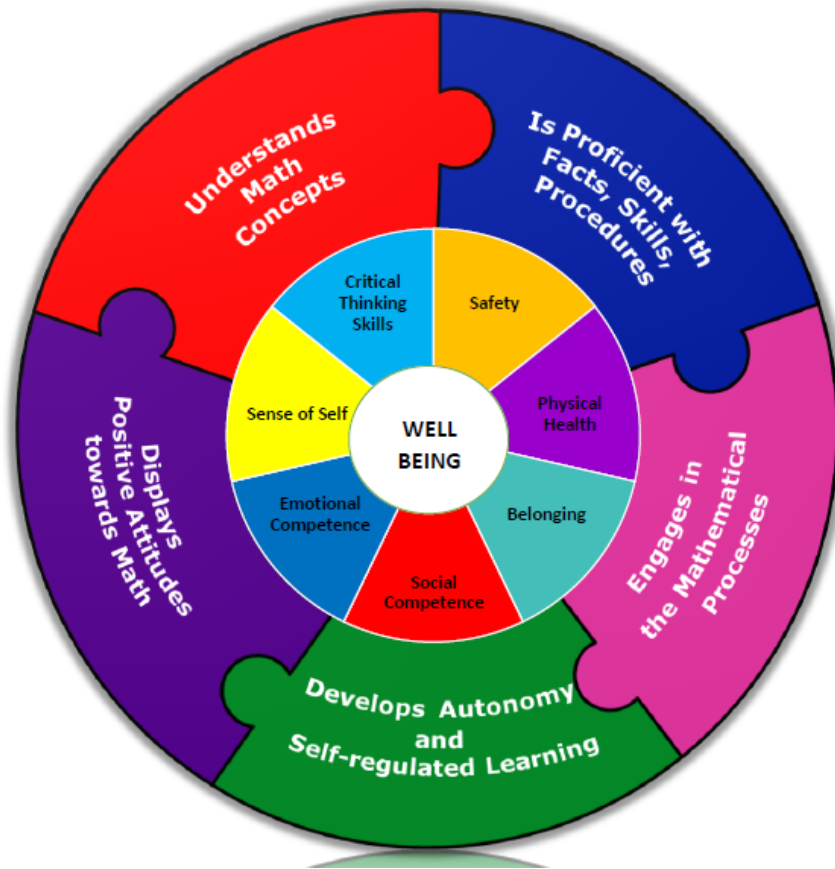
Strategic Priorities: Positive Culture & Well-Being and Student Learning & Achievement

Goal: All HWDSB students and staff feel safe, supported and accepted.

Goal: All students improving in mathematics.

WHY

VISION OF THE MATHEMATICS LEARNER



HOW

Instructional Practices	Professional Learning Opportunities	Monitoring
<ul style="list-style-type: none"> • Daily Math blocks • Knowing our learners • Development of Comprehensive Math Programs K-12 • Knowing our students through: • Development of Student Profile • Focus on evidence based instructional strategies • Anticipating Student Response 	<ul style="list-style-type: none"> • School team learning sessions on math concepts, assessment and instruction focused on identified student learning needs • Use of Consultants, Instructional Coaches and Math Facilitators • Principal Learning • Collaborative, Job Embedded PD: • Math Process Expectations • Procedural and Conceptual Knowledge • Overall Expectations (big ideas) • Deepening content knowledge • Evidence based instructional strategies including blended learning • Understanding how to respond to misconceptions in student response/thinking 	<ul style="list-style-type: none"> • Establish baseline math levels for all Grade 3, 6, and 9 students • Establish monitoring practices in all grades • Establish set of system-wide progress indicators for math learning and improvement • Establishing School Based Targets: • Student Work Samples/Moderation • EQAO/Report Card Data • Pedagogical Documentation

TRANSFORMING ENVIRONMENTS

TRANSFORMING RELATIONSHIPS

	Understands Math Concepts
	<p>Learners engage in independent and collaborative opportunities so they can:</p> <ul style="list-style-type: none"> ✓ Know more than isolated facts and methods ✓ Understand mathematical ideas and have the ability to transfer their knowledge and skills into new situations and apply them to new contexts ✓ Apply their understanding to new situations and learnings
	Is Proficient with Facts, Skills, Procedures
	<p>Learners engage in opportunities that:</p> <ul style="list-style-type: none"> ✓ Provide meaningful practice in variety of ways ✓ Foster the use of appropriate mathematical language, notations, visual representations and symbols to communicate ✓ Support consolidation and mastery of learning
	Engages in the Mathematical Processes problem solving * reasoning and proving * reflecting * selecting tools and computational strategies * connecting * representing * communicating
	<p>Learners engage in the mathematical processes to:</p> <ul style="list-style-type: none"> ✓ Build new knowledge ✓ Form logical arguments ✓ Apply knowledge and skills to new situations
	Develops Autonomy and Self-Regulated Learning
	<p>Learners have an active role in:</p> <ul style="list-style-type: none"> ✓ Developing understanding of learning goals and success criteria through co-construction ✓ Applying, criteria, monitoring progress, reflection, and setting individual learning goals ✓ Applying feedback, monitoring progress, reflecting and setting individual learning goals ✓ Developing and practicing peer and self-assessment skills
	Displays Positive Attitudes towards Mathematics
	<p>Learners experience a learning environment that:</p> <ul style="list-style-type: none"> ✓ Feels safe to wonder and take intellectual risks ✓ Develops self-efficacy, resilience, and a growth mindset ✓ Positions them as mathematical thinkers and doers ✓ Fosters an appreciation for mathematics as an important tool in daily living ✓ Engages them within a digital world

TRANSFORMING OPPORTUNITIES