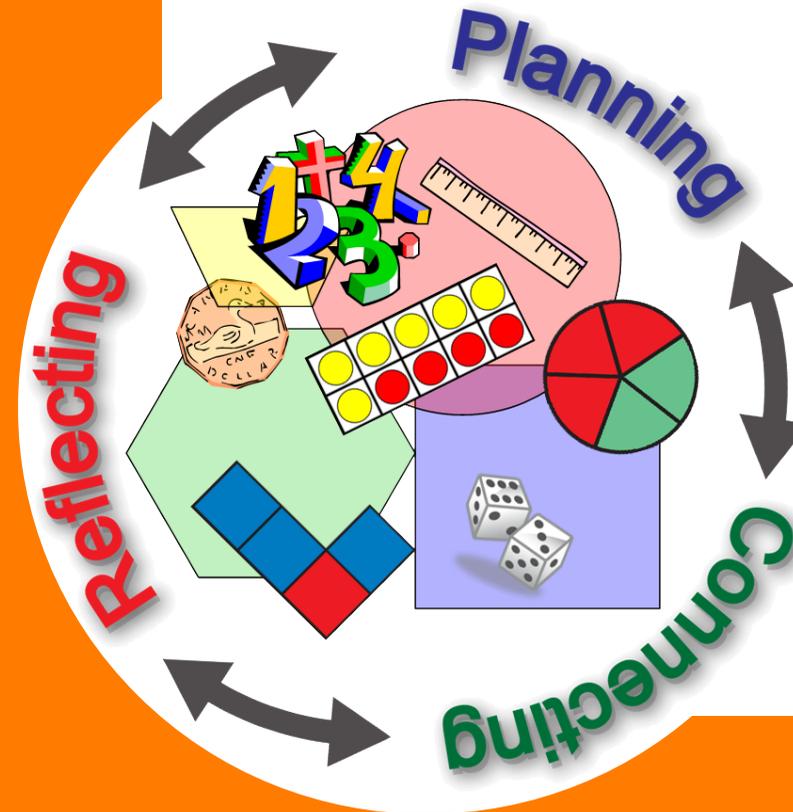


5. Numeracy Helping Teacher Support - Some Ideas

- ◆ Demo lessons and team teaching
 - Planning → Teaching → Reflecting (→ Planning...)
- ◆ Facilitated discussions with staff
 - Passions, Challenges, etc.
 - Grade groups, Across the Grades & Transitions
 - Book Clubs
- ◆ Workshops
- ◆ Resources
 - Curriculum support
 - Professional learning
 - HT-created lessons and supportive materials
 - HT-created numeracy assessments
- ◆ Parent nights
 - Information
 - Math nights
- ◆ Other

Making Math Happen

Developing Numeracy Through Problem Solving



1. What is the Numeracy Project all about?

- ◆ Building a **collaborative community** and culture with a common vision, leading towards a **focused inquiry**
- ◆ Building a sense of what **numeracy** is all about for everyone in the school community
- ◆ Developing numerate students – building from where they are to where they need to go
- ◆ Building an understanding and supporting the practice of the **big ideas** of the teaching and learning of mathematics:
 - **conceptual** understanding
 - big math ideas
 - teaching **through** problem solving
 - mathematical **processes** (communication, connections, mental math and estimation, problem solving, reasoning, technology, and visualization)
 - **assessment** for learning
 - effective questioning
 - differentiated instruction
- ◆ Developing leadership **capacity** at the school level

2. What will it look like?

- ◆ Teachers and students **messing around** with problems, using manipulatives, and exploring mathematical concepts
- ◆ Teachers and students posing thoughtful **questions** to build understanding
- ◆ Students **communicating** and sharing their thinking in a variety of ways
- ◆ Students making **connections** to prior knowledge to develop conceptual understanding
- ◆ Teachers, students, and the whole school community having a positive **attitude** towards mathematics.

3. Whole Project Overview (the 3-C's)

- ◆ **Phase 1: Developing Culture/Community**
- ◆ **Phase 2: Facilitating Change**
- ◆ **Phase 3: Building Capacity**

4. Structure

- ◆ School Math Team:
 - Mentor, Primary and Intermediate Representatives, and an Administrator representative
 - School Math Team works with at least 2/3 of school staff, taking an active role in implementing the Numeracy Project at their school
 - Numeracy Helping Teacher meets regularly with School Math Team to coordinate and plan to support staff
- ◆ Year overview:
 - 3 days of release time for School Math Team PD (Fall, Winter, Spring) (building their capacity), participating with other Numeracy Project School Teams
 - Numeracy-dedicated PD day (or equivalent) for school staff
 - Other school-based PD/workshops (in-school or after-school)
 - Collaborative planning time – School Math Team and Administration need to provide *creative* means to allow teachers to collaborate with a focus on the Project
 - Many opportunities for in-school support from Numeracy Helping Teacher
(see back page for ideas)

