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
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)