

# SD 38 K-12 Mathematics & Numeracy

## Grades 3-5: Week One

**Big Idea:** Number represents and describes quantity.

**Curricular Content:** number concepts to 1 000, 10 000, 1 000 000

**Curricular Competencies:** communicate mathematical thinking in many ways, represent mathematical ideas in concrete, pictorial, and symbolic forms, connect mathematical concepts to each other and to other areas and personal interests

**Core Competencies focus:** Communication

Teachers and Families: The following are five problems/tasks to choose from for this week, based on the above curricular areas of focus.

Choose a number: 1 000 or 10 000 or 500 000

What different ways can you represent the number?

Try and think of at least five different ways.

Consider using symbols, pictures, words, grids/arrays, equations, etc.

Choose a number: 999 or 5 000 or 250 000

What ten different ways can you decompose it?

Decompose means break into parts (ie. 20 can be decomposed into 10 and 10 or 10 and 7 and 3 and many other ways).

How will you show your thinking?

Choose a number: 100 or 1000

Think about that quantity of items (grains of rice or pieces of lego or pinecones).

How much space does that amount take up? How would you count the items if you had to? Show your thinking using pictures, numbers and words.

Choose an amount: \$1 000 or \$100 000

What are some different ways can you make this amount with bills?

What are three items that cost about this much?

### **Numeracy Task:**

Look in a newspaper, flyers or on a website. Where do you see numbers?

Record the numbers you find on a piece of paper.

What numbers are most common? How are numbers used to organize information, represent value or importance or communicate ideas?