

## Division 1: Mathematics

### UNIVERSAL

Create structured opportunities for students to work collaboratively to:

- develop mathematical language
- build background knowledge
- reference and use models and exemplars
- use manipulatives and pictorial representations to explore and express learning
- participate in guided hands-on activities to develop conceptual understanding of number operations
- begin to use reflection to build conceptual understanding of number operations
- begin to recognize that numbers are connected to their real-life experiences.

### TARGETED

Create scaffolded hands-on activities for students to work with a partner or in small groups to:

- learn and use mathematical words, using strategies such as word walls
- create connections between personal experiences and new mathematical concepts, using strategies such as think–pair–share, RAN charts and mind mapping
- learn to use manipulatives, such as base ten blocks, mathematical balance and various counters, to represent numbers and problems in a variety of contexts
- use visual models and supports, such as open number lines, hundred chart, rekenreks, strings or place value mats
- revisit and review key concepts, using a variety of learning experiences connected to real-life experiences at home, at school and in the community
- begin to explore personal strategies, using strategies such as math journals
- explore multiple ways to express learning, using strategies such as creating mathematics picture books and poster projects.

### INDIVIDUALIZED

Use direct teaching, repeated modelling and guided practice, and small group and individualized instruction to:

- create hands-on multisensory activities to introduce and explore new mathematics concepts and/or experiences
- support development of vocabulary related to numbers
- explore, discuss and record how numbers are used in the physical environment at school, at home and in the community
- have access to mathematics materials and visual prompts that are modified for ease of use
- create and use visual records from previous learning experiences, using photos, anchor charts and experience charts
- explore and record number operations and basic mathematics concepts, using visual prompts, concrete objects, pictures, photos and dramatizations.