

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.