Alison's Montessori
www.alisonsmontessori.com

COMMON CORE STANDARDS

CCS.M65.01: Large Bead Frame Paper

Students will:

- Record math operations using aligned columns for units, tens, hundreds, thousands, and beyond
- Solve multi-digit addition and subtraction problems using visual support
- Connect physical manipulation (bead frame) to written number representation
- Practice carrying and borrowing with structured support
- Strengthen number sense, organization, and mathematical confidence
- Develop fluency and independence in place value-based computation

Grade 1: Introduce place value recording and basic operations

Focus Area: Begin aligning numbers by place value using bead frame and paper.

- **CCSS.1.NBT.B.2:** Understand that the two digits of a two-digit number represent amounts of tens and ones.

Focus Area: Use recording paper to support addition with place value structure.

- **CCSS.1.NBT.C.4:** Add within 100 using models and drawings; relate the strategy to place value.

Focus Area: Introduce subtraction structure using bead frame and column alignment.

- **CCSS.1.NBT.C.6:** Subtract multiples of 10 from two-digit numbers.

Grade 2: Expand to 3-digit operations with regrouping

Focus Area: Practice larger operations with the bead frame and recording paper.

- **CCSS.2.NBT.B.5:** Fluently add and subtract within 100 using strategies based on place value..

Focus Area: Transition to 3-digit written computations with support.

- **CCSS.2.NBT.B.7:** Add and subtract within 1,000 using concrete models, drawings, and place value understanding.

Grade 3: Build fluency with abstract multi-digit strategies

Focus Area: Solidify fluency in written multi-digit operations. • **CCSS.3.NBT.A.2:** Fluently add and subtract within 1,000 using algorithms based on place value.
Focus Area: Begin exploring multiplication with place value awareness • **CCSS.3.NBT.A.3:** Multiply one-digit whole numbers by multiples of 10.