**Research Based Math Interventions Guide**

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| **If a student struggles with…** | **Try the following…** |
| ***number sense skills in the following areas . . .***   * Number Identification * Missing Number Quantity Discrimination * Number Representation * Place Value | • Match word or visual numbers and digits using magazines, task cards etc.  • Use of number line-  • Fill the missing number charts  • Graphic organizers (i.e.- place value chart)  • Manipulative (Cubes, Base 10 blocks etc.)  • Missing number line/chart  • Compare using cubes  • Decompose numbers  • Place Value mats  • Touch Math (http://www.touchmath.com) |
| ***computation skills in the following areas . .*** .   * Addition * Subtraction * Multiplication * Division * Mixed Computation Skills | • Manipulatives to add/sub (Cuisenaire Rods, base 10 blocks, money etc.)  • Touch Math (http://www.touchmath.com)  • Demonstrate arrays  • Use of the number line  • Act out  • Investigation Intervention guide in your math books  • Reference sheet (pictures associated with steps to solve)  • Hands on equations  • “Check Box” i.e.- check subtraction with addition  • Sorting/highlighting keywords  • Color code operation signs |
| ***advanced computation skills in the following areas . .***   * Fractions * Percent * Rounding * Estimating * Exponents | • Manipulatives (fraction bars, tiles etc.)  • Study Island/ Web tutorials  • Compare fractions on a ruler  • Number line and pictures (rounding)  • Reference sheet |
| ***spacial/geometry skills in the following areas . . .***   * recognition * attributes | •Physically touch the shape  • Trace the shape  • Vocabulary words- anchor charts  • Draw with sidewalk chalk, sand or other gooey substance  • Manipulatives- to create shapes, 3d shapes  • Graphic Organizers (i.e.- Quad chart)  • Real World Pictures  • Make a chart or flashcards (word and pictures)  Use geoboard |
| ***struggles with word problems…*** | • Graphic Organizers – can create place mats § Visual Representation with Manipulatives  • Acting Out  • Color code symbols (if students are overlooking)  • Have students “think out loud” with steps  • Study “office” with key words |

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**Compiled from:** [www.interventioncentral.org](http://www.interventioncentral.org);http://ies.ed.gov/ncee/wwc [www.easycbm.com;https://mathreasoninginventory.com](http://www.easycbm.com;https://mathreasoninginventory.com); www.interventiondepot.com; <http://www.rtinetwork.org/professional/rti-talks/transcript/talk/36>; http://www.bhs.k12.oh.us/RtI/RTI-InterventionBank.pdf