“If A Student…, Then…”

Math Interventions Menu
Based on Research

Original by Jennifer Jones for Reading | www.helloliteracy.blogspot.com

Adapted by JV Washam Elementary for Math

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Math Challenges Classroom Adaptation/Intervention Strategies in Response to Math Challenges

IF A STUDENT…. .	**THEN … (try some of the following)**
struggles with **number sense** skills in the following areas . . . *Number Id * Missing Number *Quantity Discrimination * Number Representation * Place Value	• Roll a number cube, call out the number rolled. Children who don't know the number will learn from calling out the number. • Manipulate numbers using a variety of textures (sand, shaving cream etc) • Match word or visual numbers and digits using magazines, task cards etc • Organic number line- on the # line; show different ways to represent the given number • Fill the missing number charts • Number of the day- write the number, make it, trace it, hit it on the door on the way out • Graphic organizers (i.e.- place value chart) • Manipulative (Cubes, Base 10 blocks etc) • *Investigation* Intervention guide in your math books • Number ID using flashcards • Deck of cards, tell me the number or add/subtract • Find numbers around the room • Missing number line/chart • Compare using cubes • Decompose numbers • Place Value mats • Touch Math (http://www.touchmath.com) **Baseline** • See Kathy Richardson Books (Counting Objects, Changing Numbers, More/Less, Number arrangements, Ten Frames) • Easy CBM • Intervention Central Site

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struggles with **computation** skills in the following areas . . . * Addition * Subtraction *Multiplication * Division * Mixed Computation Skills	• Manipulatives to add/sub (Cuisenaire Rods, base 10 blocks, money etc) • Make trains to demonstrate addition and subtraction facts • Counter to form arrays that show combining groups • Use of the number line (in notebook) • Act out • *Investigation* Intervention guide in your math books • Reference sheet (picture associated with steps to solve) • Hands on equations • "Check Box" i.e.- check subtraction with addition • Use 100 board • Read aloud problems • Flashcards/xtramath.org • Sorting/highlighting keywords • Color code operation signs **Baseline** • See Kathy Richardson Books (Combination Trains, Hiding Assessments, Grouping 10's, Two Digit addition and Subtraction) • Easy CBM • Intervention Central Site • Mathematical Reasoning Inventory
struggles with ***Advanced Computation*** skills in the following areas . . . * Fractions * Percents * Rounding *Estimating * Exponents	• Manipulatives (fraction bars, tiles etc) • *Investigation* Intervention guide in your math books • Study Island/ Web tutorials • Kahn Academy Videos • Compare fractions on a ruler • Number line and pictures (rounding) • Reference sheet **Baseline** • Easy CBM • Intervention Central Site • Mathematical Reasoning Inventory

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struggles with ***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 • *Investigation* Intervention guide in your math books • Manipulatives- to create shapes, 3d shapes • Videos/Kahn Academy • Graphic Organizers (i.e.- Quad chart) • Real World Pictures • Make a chart or flashcards (word and pictures) • Use geoboard **Baseline** • Easy CBM • Intervention Central Site • Mathematical Reasoning Inventory
struggles with **word problems**	▪ Graphic Organizers – can create place mats ▪ Visual Representation with Manipulatives ▪ Acting Out • *Investigation* Intervention guide in your math books ▪ Color code symbols (if students are overlooking) ▪ Have students "think out loud" with steps ▪ Study "office" with key words ▪ Singapore Math- question into a sentence i.e.- There are ___ cars in each group ▪ Underline keywords **Baseline** • Intervention Central Site • Mathematical Reasoning Inventory

<u>Compiled from the following Websites & Professional Books:</u>

Websites:
www.interventioncentral.org
http://ies.ed.gov/ncee/wwc
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

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Books in our bookroom:

Math in Plain English (Literacy Strategies for the Mathematics Classroom) Amy Benjamin
My Kids Can-Making Math Accessible to All Learners
Number Sense Routines by Jessica Shumway
Kathy Richardson Books

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