

“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)
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<p>struggles with number sense skills in the following areas . . .</p> <ul style="list-style-type: none"> *Number Id * Missing Number *Quantity Discrimination * Number Representation * Place Value 	<ul style="list-style-type: none"> • 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 • <p>Fill the missing number charts</p> <ul style="list-style-type: none"> • Number of the day- write the number, make it, trace it, hit it on the door on the way out • <p>Graphic organizers (i.e.- place value chart)</p> <ul style="list-style-type: none"> • Manipulative (Cubes, Base 10 blocks etc) • <i>Investigation</i> 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) <p>Baseline</p> <ul style="list-style-type: none"> • See Kathy Richardson Books (Counting Objects, Changing Numbers, More/Less, Number arrangements, Ten Frames) • Easy CBM • Intervention Central Site
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<p>struggles with computation skills in the following areas . . .</p> <ul style="list-style-type: none"> * Addition * Subtraction * Multiplication * Division * Mixed Computation Skills 	<ul style="list-style-type: none"> • 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 • <i>Investigation</i> 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 <p>Baseline</p> <ul style="list-style-type: none"> • See Kathy Richardson Books (Combination Trains, Hiding Assessments, Grouping 10’s, Two Digit addition and Subtraction) • Easy CBM • Intervention Central Site • Mathematical Reasoning Inventory
<p>struggles with Advanced Computation skills in the following areas . . .</p> <ul style="list-style-type: none"> * Fractions * Percents * Rounding * Estimating * Exponents 	<ul style="list-style-type: none"> • Manipulatives (fraction bars, tiles etc) • <i>Investigation</i> 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 <p>Baseline</p> <ul style="list-style-type: none"> • Easy CBM • Intervention Central Site • Mathematical Reasoning Inventory

<p>struggles with <i>spacial/geometry</i> skills in the following areas . . .</p> <p>*recognition *attributes</p>	<ul style="list-style-type: none"> • Physically touch the shape • Trace the shape • Vocabulary words- anchor charts • Draw with sidewalk chalk, sand or other gooey substance • <i>Investigation</i> 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 <p>Baseline</p> <ul style="list-style-type: none"> • Easy CBM • Intervention Central Site • Mathematical Reasoning Inventory
<p>struggles with word problems</p>	<ul style="list-style-type: none"> ▪ Graphic Organizers – can create place mats ▪ Visual Representation with Manipulatives ▪ Acting Out • <i>Investigation</i> 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 ▪ <p>Underline keywords</p> <p>Baseline</p> <ul style="list-style-type: none"> • Intervention Central Site • Mathematical Reasoning Inventory

Compiled from the following Websites & Professional Books:

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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