

Mathematics Intervention Matrix

<p><u>Tier 1</u> <i>Universal Interventions (Core Curriculum)</i></p>	<ul style="list-style-type: none"> • Balanced math instruction • Real-life math experiences • Math word wall with easy access • Explicit math instruction strategies (Appendix A): • “Draw to Clarify” • “4 Step Problem-Solving Approach”-specific to problem solving • “Errorless Learning Worksheets” • “Chunk” problems and break down into smaller, more manageable assignments • “Peer Guided Pause” or “Think Pair Share” • Provide white boards for individual students to utilize during whole class instruction • “Math Talk” • “Wrap Around Instructional Plan” • “Class Journaling” • “Individualized Self-Correction” • “Balanced Massed & Distributed Practice” • Teach Effective Test-Preparation Strategies • “Pre-teach, Model, and Use Standard Math Terms”-vocabulary • “STAR” strategy (Appendix B)- problem solving • “Teaching Math Facts” (Appendix C) –specific to numeracy • Cooperative Learning Structures
<p><u>Tier 2</u> <i>Targeted Group Interventions</i></p>	<ul style="list-style-type: none"> • Small group instruction • “Coach Cards” (Appendix D)- build fluency with facts • “Morning Academies” • “Booster” protocol for specific skills and concepts (Appendix E) <p><u>PROGRAMS FOR PURCHASE</u></p> <p><u>Number and Operations</u></p> <ul style="list-style-type: none"> • “America’s Choice” • “Math Flash Cyber Sleuth” • “Mathematics Navigator” • “FASTT Math” • “Touch Math” • “Number Worlds” • CARSON-DELLOSA- Math Class Rescue (Grades 1-5)-specific to numeracy • ETA CUISENAIRE- FractionWorks® (Grades 3-8) • OPTIONS-Breakaway Math (Grades 3-8—All Strands)

Mathematics Intervention Matrix

	<ul style="list-style-type: none"> • SOPRIS WEST- Transitional Mathematics (Grades 5-9—For Level 1 Students) • TRIUMPH LEARNING- Ladders to Success (Grades 3-8—All Strands) • WRIGHT GROUP/McGRAW-HILL • Everyday Mathematics Games Kit (Grades PreK-6) • Hands-On Base Ten Blocks (Grades K-3) • The Decimal Factory (Grades 5-8) • The Fraction Factory (Grades 3-8) <p><u>Geometry and Measurement</u></p> <ul style="list-style-type: none"> • BESTQUEST- Math’scool® (Grades 6-8) • ETA CUISENAIRE- MeasureWorks® (Grades 1-5) • WALCH PUBLISHING- Geometry Hands-On Math Series (Grades 6-8) • WRIGHT GROUP/McGRAW-HILL- Moving On with: • Pattern Blocks (Grades K-6) • Geoboards (Grades 4-6) • Tangrams (Grades 4-6) <p><u>Functions and Algebra</u></p> <ul style="list-style-type: none"> • ETA CUISENAIRE- Hands-On Equations® (Grades 4-8) • 24® Games (Grades 4-8) • AlgebraWorks™ (Grades 6 and up) • GREAT SOURCE- Every Day Counts—Algebra Readiness (Grades 6 and up) • WRIGHT GROUP/McGRAW-HILL • NIKTU (Grades 3-8) • Algebra Thinking-First Experiences (Grades 5-8) <p><u>Data, Statistics, and Probability</u></p> <ul style="list-style-type: none"> • SCHOLASTIC- Super Graphs, Venns, & Glyphs (Grades K-5) • WALCH PUBLISHING- Data Analysis & Probability Hands-On Math Series (Grades 6-8) • CREATIVE PUBLICATIONS- □What Are My Chances? (Grades 4-6; 7-9) • LEARNING RESOURCES- □Data, Chance & Probability (Grades 1-3; 4-6)
<p><u>Tier 3</u> <i>Intensive Individual Interventions</i></p>	<ul style="list-style-type: none"> • “Ramp-up Mathematics”- program for purchase • “Touch Math”- program for purchase • “Math the Fun Way”- program for purchase

Mathematics Intervention Matrix

<p><i>Vocabulary Resources</i></p>	<ul style="list-style-type: none"> • http://www.amathsdictionaryforkids.com/ (animated, interactive dictionary for students which explains over 600 common mathematical terms in simple language) • District’s Vocabulary Word Lists (Grades PreK-5) • DOE’s FCAT Glossary (Grades 3-8) • Lonestar Learning • Target Vocabulary Pictures—Set I/Set II (Grades 3-5) • Target the Question (Grades 1-5) • Options • Math Tools (Grades 1-8)
<p><i>Technology Resources</i></p>	<ul style="list-style-type: none"> • Compass Learning • Odyssey® (Grades PreK-8) • FCAT Explorer (Grades 5 and up) • Geogebra (Grades 5 and up) • www.geogebra.org • Illuminations (Grades 4-8) • www.nctm.org • Inspiration • Inspire Data (Grades 4-8) • Intellitools Classroom Suite (for ESE) • Neufeld Learning • Understanding Math (Grades 6-8) • Riverdeep Math (Grades K-8) • Pearson (CCC) Successmaker (Grades 5 and up) • Texas Instruments (Grades 5 and up) • www.education.ti.com • Tom Snyder Productions • FASTT Math (Grades 2 and up) • Go Solve (Grades 3-6) • Graph Club (Grades K-4) • Graph Master (Grades 4-8) • Voyager Learning • V Math Live (Grades 3-8)

Mathematics Intervention Matrix

<p><i>Teacher Reference Books</i></p>	<ul style="list-style-type: none"> • Kagan Cooperative Learning Structures for Math • ASSOCIATION FOR SUPERVISION AND CURRICULUM DEVELOPMENT • Robert Marzano, Debra Pickering, and Jane Pollock, “Classroom Instruction That Works” • LAWRENCE ERLBAUM ASSOCIATES • Liping Ma, “Knowing and Teaching Elementary Mathematics” • MATH SOLUTIONS PUBLICATIONS • Marilyn Burns, “About Teaching Mathematics” • NATIONAL ACADEMY PRESS • “Adding It Up-Helping Children Learn Mathematics” • NATIONAL COUNCIL OF TEACHERS OF MATHEMATICS • “Principles and Standards for School Mathematics • A Research Companion to Principles and Standards for School Mathematics” • PEARSON EDUCATION • John A. Van De Walle, “Elementary and Middle School Mathematics Teaching Developmentally, 5th ed.” • The Van De Walle Professional Mathematics Series, “Teaching Student-Centered Mathematics” (K-3, 3-5) • Helene Sherman, Lloyd Richardson, and George Yard, Teaching Children Who Struggle with Mathematics (Grades K-3, 3-5) • John A. Van De Walle, Teaching Secondary and Middle School Mathematics • PEARSON SKYLIGHT • Timothy McNamara, Key Concepts in Mathematics: Strengthening Standard Practice, (Grades 6-8)
<p><i>Teacher Desk Reference Books</i></p>	<p>GREAT SOURCE</p> <ul style="list-style-type: none"> • Math to Learn and Teacher Resource Book (Grades 1-2) • Math to Know and Teacher Resource Book (Grades 3-4) • Math at Hand and Teacher Resource Book (Grades 5-6) • Math on Call and Teacher Resource Book (Grades 6-8) • Algebra to Go, and Teacher Resource Book (Grades 8-12) • Geometry to Go, and Teacher Resource Book (Grades 8-12)

Mathematics Intervention Matrix

<i>Internet</i>	<p>http://www.mathsisfun.com/math.html http://www.amathsdictionaryforkids.com/ http://www.webmath.com/index.html http://www.rainforestmaths.com/ http://math2.org/ http://www.mathforum.org/teachers/ http://www.auburn.wednet.edu/everydaymath/gamesK3/gamcorr3.htm http://www.marcias-lesson-links.com/MathTubs.html http://www.mrsmcgowan.com/math/math_and_literature.htm http://trackstar.4teachers.org/trackstar/ts/searchByKeyword.do;jsessionid=D5F116CA855C48BF45D9CA140ED9CFF3?keywords= http://www.teachingtime.co.uk/ http://www.geocities.com/ljacoby_2000/math.html http://www.funbrain.com/kidscenter.html http://www.funbrain.com/math/ http://www.funbrain.com/football/index.html http://www.oswego.org/ocsd-web/games/Mathmagician/cathymath.html http://www.aplusmath.com/ http://www.eduplace.com/kids/mhm/index.html http://kidport.com http://www.rhlschool.com/math.htm http://www.rhlschool.com/computation/index.htm http://www.amblesideprimary.com/ambleweb/mentalmaths/additiontest.html</p>
-----------------	--