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Math on Target

Pacing Guide: A 6-week Summer Intervention Program

PURPOSE: *Math on Target* for Grades 3, 4, and 5 is a scientifically research-based program using graphic organizers to help students solve math problems. By using the Math Maps provided, students will develop the ability to explain their problem solving strategies and take their thinking to a deeper level. The program provides teachers with problems linked to five Mathematics Standards: Number Sense, Measurement, Geometry, Algebra, and Data and Probability. Students will practice solving mathematics problems in three assessment formats: multiple choice, short answer, and extended response.

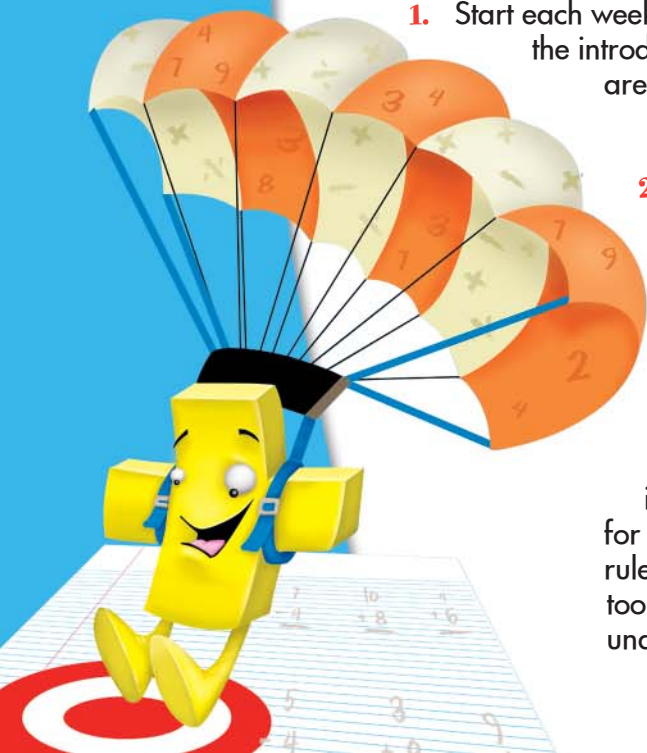
MATH MAPS: Math Maps are graphic organizers that provide students with a systematic way to think through any mathematics problem. The use of a math map prompts students to reread and rethink what it is they need to solve.

BENEFITS: *Math on Target* is the ideal instructional solution for either diagnostic assessment or for individual student practice. Math Maps provide clear evidence of where students break down in their knowledge of facts, skills, and mathematical processes. Practice problems provide modeling, practice and diagnostic assessment. Help students develop the conceptual understanding and higher-level thinking skills like problem solving, reasoning and proof, communication, connections, and representations. This program can be use in Response to Intervention for universal, selective and intensive levels.

Math on Target provides a format for students to show their thinking and work as they transfer their thoughts into a written format for a reader.

INSTRUCTIONAL GUIDE: Five Mathematics Standards are covered in this *Math on Target* Program that are based on National Mathematics Standards that your state standards are modeled after. The program is broken down further into 15 Model Lessons. For this program to be most effective, it is suggested that one Model Problem be presented each week over a 15-week period. Can also be condensed into a shorter intervention course.

1. Start each week with a lesson and give problems as an assignment. Allow extra time for the introduction of each of the five standards. At the end of each Standard there are Literature Connections, which lists books that you may want to use as part of a model lesson.
2. Review the Math Maps of students who are having difficulty with problems for that standard. The Math Maps show where a student is breaking down in his/her problem-solving and critical-thinking processes.
3. Provide intervention or focused instruction for students who need additional help with concepts being taught.
4. Each workbook includes blackline masters of manipulatives that include graphics of two-dimensional figures, one-inch and half-inch grids for problem solving, measuring tools (a protractor and inch and centimeter rulers), spinners, cube models to show volume, and a clock face. These tools as well as others that you use in your classroom can help students understand abstract mathematical concepts.





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WEEKLY PACING GUIDE

Week 1

Introduction to Standard:
Number Sense
What is Number Sense?
What does Number Sense look like?
Vocabulary related to Number Sense
Model Problem 1: Multiple-choice, Practice Problems 1–7
Model Problem 2: Short-Answer Practice Problems 8–9
Model Problem 3: Extended-Response Practice Problem 10
Optional: Literature–Reading Assignment

Week 2

Introduction to Standard: Measurement
What is Measurement?
What does Measurement look like?
Vocabulary related to Measurement
Model Problem 4: Multiple-choice Practice Problems 11–17
Model Problem 5: Short Answer Problems 18–19
Model Problem 6: Extended-Response Practice Problem 20
Optional: Literature –Reading Assignment

Week 3

Introduction to Standard:
Geometry
What is Geometry?
What does Geometry look like?
Vocabulary related to Geometry
Model Problem 7: Multiple-Choice Practice Problems 21–27
Model Problem 8: Short-Answer Practice Problems 28–29
Model Problem 9: Extended-Response Practice Problem 30
Optional: Literature – Reading Assignment

Week 4

Introduction to Standard: Algebra
What is Algebra?
What does Algebra look like?
Vocabulary related to Algebra
Model Problem 10: Multiple-Choice Practice Problems 31–37
Model Problem 11: Short-Answer Practice Problems 38–39

Week 5

Model Problem 12: Extended-Response Practice Problem 40
Optional: Literature Connections for Algebra
Introduction to Standard: Data and Probability
What is Data and Probability?
What does Data and Probability look like?
Vocabulary related to Data and Probability
Model Problem 13: Multiple-Choice Practice Problems 41–47

Week 6

Model Problem 14: Short-Answer Practice Problems 48–49
Model Problem 15: Extended-Response Practice Problem 50
Optional: Literature Connections for Data and Probability

