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Science on Target

Pacing Guide: A 7-week Summer Intervention Program

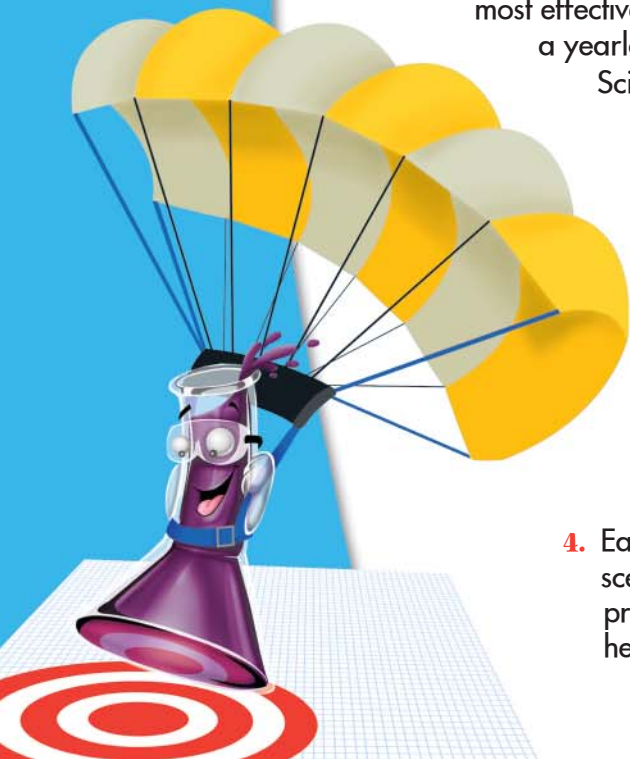
PURPOSE: *Science on Target* for Grade 4 is a scientifically research-based program using graphic organizers to help students build Science comprehension and critical thinking skills. By using the Science scenarios, graphic organizers, manipulatives, checklists, and questions provided, students will 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 seven Science Standards: Science as Inquiry, Physical Science, Life Science, Earth Science, Science and Technology, Science in Personal and Social Perspective, and the History and Nature of Science. *Science on Target* challenges students as they respond to short-answer and extended response questions.

GRAPHIC ORGANIZERS: Research-based graphic organizers provide students with a systematic way to think through any science problem. Graphic organizers provide a visual framework of a student's thought process and are valuable evaluation tools to assess students' knowledge of Science.

BENEFITS: *Science on Target* is the ideal instructional solution for either diagnostic assessment or for individual student practice. Graphic organizers provide clear evidence of where students break down in their knowledge of Science facts, skills, and scientific processes. 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 used in Response to Intervention (RTI) for universal, selective, and intensive levels. *Science 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: Seven Science Standards are covered in this *Science on Target* Program that are based on National Science Standards that your state standards are modeled after. The program is broken down further into 43 Science scenarios. For this program to be most effective, it is suggested that one Science scenario be presented each week over a yearlong school year. For a summer intervention course, approximately one Science standard is suggested per week over a 7-week period.

1. Start each week with a standard and give scenarios as an assignment. Allow extra time for the introduction of each of the seven standards.
2. Review the completed Science graphic organizers of students. The graphic organizers 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 a visual glossary of graphic organizers, the Science scenarios, graphic organizers, manipulatives, checklists, and questions provided. These tools as well as others that you use in your classroom can help students understand scientific concepts.





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WEEKLY PACING GUIDE

Week 1—Science as Inquiry

Introduction to Standard:
Activity 1—The Marigold
Planting Project
Activity 2—Measuring Up
Activity 3—All About Worms
Activity 4—Molecule Movement
Activity 5—Seed Dispersal
Activity 6—Forces and Motion
Activity 7—Experiment Challenge
Activity 8—Fruit Facts

Week 2—Physical Science

Introduction to Standard:
Activity 1—Classroom Objects
Activity 2—Mix and Separate
Activity 3—Push and Pull
Activity 4—Reflection Reflections
Activity 5—Heat Production
Activity 6—Electrical Energy
Activity 7—Magnetic Attraction

Week 3—Life Science

Introduction to Standard:
Activity 1—Parts of a Whole
Activity 2—Lots of Life
Cycles
Activity 3—Parents
and Their Young
Activity
4—Inherited
and Learned
Characteristics
Activity 5—
Producers and
Consumers
Activity 6—Kelp
Forest Environment
Activity 7—Skateboard
Debate

Week 4—Earth Science

Introduction to Standard:
Activity 1—Earth Materials
Activity 2—Coal Types
Activity 3—Terrific Terrariums
Activity 4—Fossil Facts
Activity 5—Sky High
Activity 6—The Sun: A Source of Heat
and Light
Activity 7—Earth Changes
Activity 8—A Change in the Weather
Activity 9—Seasonal Weather Game

Week 5—Science and Technology

Introduction to Standard:
Activity 1—A Just Ducky Invention
Activity 2—Bunch of Bubbles
Activity 3—Science Bulletin Board
Activity 4—Natural or Man-Made?

Week 6—Science in Personal and Social Perspective

Introduction to Standard:
Activity 1—Body Systems
Activity 2—Healthy Skating
Activity 3—Flooded Field Trip

Week 7—History and Nature of Science

Introduction to Standard:
Activity 1—Researching the Light Bulb
Activity 2—light bulb development
Activity 3—Science for Everyone
Activity 4—Changes in Science
Activity 5—Help Wanted: Science

