



Science Classroom Magazine
Grades 3–6

Alignment to Title I, Part A – Improving Basic Programs

The purpose of *Title I, Part A* is to ensure that all children have a fair, equal, and significant opportunity to obtain high-quality education and reach, at a minimum, proficiency on challenging State academic achievement standards and assessments. The following chart illustrates how *SuperScience* supports both schoolwide and targeted assistance *Title I* programs.

KEY CRITERIA FOR TITLE I, PART A FUNDING	SUPERSCIENCE SUPPORTS SCHOOLWIDE AND TARGETED ASSISTANCE TITLE I PROGRAMS
<p>Provide opportunities for all students to meet the State's proficient and advanced levels of student academic achievement, particularly in the areas of reading/language arts, math, and science.</p>	<p><i>SuperScience</i> is an engaging teaching resource that uses current science news, fictional mysteries, and hands-on activities to motivate upper-elementary students to apply the scientific method. <i>SuperScience</i> covers all areas of the science curriculum and <u>builds proficiency in essential science, literacy, and math skills</u>, including:</p> <ul style="list-style-type: none"> • <u>Understanding life science concepts</u>, such as life cycles and characteristics of organisms, endangered species, health and fitness, and the human body • <u>Understanding earth science concepts</u>, such as ecosystems, habitats, climate and weather, the environment, geology, and the solar system • <u>Understanding physical science concepts</u>, such as simple machines, technology, forces, motion, energy, mass, and matter • <u>Using the scientific method</u>, including developing a hypothesis, predicting, collecting and interpreting data, observing, comparing, and drawing conclusions • <u>Reading and interpreting visual aids</u>, including diagrams, graphs, and charts • <u>Applying scientific concepts to the real world</u> • <u>Reading comprehension, fluency, and stamina</u> across a wide variety of genres and text formats, including fiction, nonfiction, interviews, and read-alouds • <u>Learning and using content-area vocabulary</u> • <u>Listening and communication skills</u> through shared readings, read-alouds, and classroom discussions of text • <u>Basic arithmetic skills and graphing</u> <p>As students read nonfiction texts across a wide variety of subject areas in <i>SuperScience</i>, they <u>develop content-area vocabulary and knowledge in social studies, math, language arts, and other curriculum areas</u>.</p> <p><i>SuperScience</i> provides practice tests and quiz questions within the magazine and online that promote familiarity with standardized test formats and <u>improve student achievement on standardized assessments</u>.</p>
<p>Use effective methods and instructional practices that are based on scientifically based research and that:</p> <ul style="list-style-type: none"> ▪ Strengthen the core academic program in the school ▪ Increase the amount and quality of learning time, such as providing an extended school year, before- and after-school programs, and summer programs and opportunities ▪ Provide an enriched and accelerated curriculum ▪ Include strategies for meeting the educational needs of historically underserved populations 	<p><i>SuperScience</i>'s instructional strategies are based upon <u>proven methods and educational practices that work</u>. Each feature is <u>connected to curriculum skills and NSE standards</u> and is monitored by a <u>team of teacher advisors</u>. Complete lesson plans with pre-reading strategies, objectives, extension activities, and discussion questions in the Teacher's Edition help ensure <u>effective instruction and tutoring</u>.</p> <p>A report prepared by Lesley Mandel Morrow, Ph.D., Rutgers University, cites <u>research demonstrating how magazines help teachers build reading skills</u>. The study finds that classroom magazines benefit students by:</p> <ul style="list-style-type: none"> • <u>Motivating students to read</u> • Being used for <u>differentiated instruction</u> • Providing <u>age-appropriate nonfiction</u> • <u>Offering help for struggling readers</u> • Providing a <u>valuable link between home and school</u> • Using <u>research-based activities to build literacy skills</u> <p><i>SuperScience</i> can strengthen the core academic program, enrich the curriculum, and increase the quality and amount of time spent reading and practicing scientific concepts. The magazine can be <u>effectively used for individualized, small-group, or whole-class instruction</u>, as well as for <u>extended learning opportunities after school or in the home</u>.</p>

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<p>Include strategies that address the needs of all children in the school, but particularly the needs of low-achieving children and those at risk of not meeting the State's student academic standards who are members of the target population.</p>	<p><i>SuperScience</i> provides multiple teaching strategies with each monthly issue to address the needs and skills of all children in the classroom. Motivational and skill-building strategies include:</p> <ul style="list-style-type: none"> • Relevant, high-interest text that <u>connects science to the real world, promotes independent reading, helps students make personal connections to science, and aids comprehension</u> • Hands-on experiments that <u>illustrate curriculum concepts, build problem-solving skills, and support visual and tactile learners</u> • Science mysteries that <u>build reading comprehension and analytical reasoning skills</u> • A variety of texts within each issue to <u>build reading stamina and fluency</u> • Shared readings and read-alouds that <u>build oral fluency and listening skills, while encouraging reluctant students to participate in class</u> • Opportunities to practice strategies to determine word meanings by using information about word parts, context clues, and definitions given within text • Colorful, text-related photographs, illustrations, graphs, diagrams, and maps to <u>aid visual learners and build visual literacy</u> • Discussion questions and quizzes that <u>encourage students to read carefully, retain information, and build test-taking stamina</u> <p><i>SuperScience</i> provides a diverse array of learning experiences in each issue to support the <u>various learning styles and needs of all students</u>.</p> <p>The Teacher's Edition contains <u>connections to curriculum process skills and NSE standards</u> for each article and activity to help educators easily target those features that will be most beneficial to the class as a whole and for students in need of targeted assistance.</p> <p>Reproducible skills worksheets and quizzes are provided with each issue to reinforce the skills taught within <i>SuperScience</i>. These can be used for <u>whole-group assessment or to provide targeted assistance for those students in need of additional skills practice</u>.</p>
<p>Closing the achievement gap between high- and low-performing children, especially the achievement gaps between minority and non-minority students, and between disadvantaged children and their more advantaged peers.</p>	<p>By <u>increasing motivation, reinforcing skills, and encouraging students to become active participants in their science and reading development</u>, <i>SuperScience</i> can help close the achievement gap between high-performing and low-performing, minority, and disadvantaged children.</p> <p>High-interest, relevant nonfiction topics; engaging, playful activities, including hands-on experiments; read-alouds; and grade-appropriate literature <u>motivate reluctant students to read and participate in their learning</u>. Reproducible activity sheets provide <u>practice and reinforcement of essential skills</u>.</p>
<p>Strategies to increase parental involvement in education.</p>	<p>Students can bring <i>SuperScience</i> and its reproducible skills pages home to enable parents to see what their children are learning in school. This provides <u>a springboard for family discussions and reinforcement of classroom lessons within the home</u>.</p>
<p>Provide high-quality and ongoing professional development that aligns with the State's academic standards.</p>	<p>Each Teacher's Edition provides <u>targeted teaching support, proven instructional methods, and effective teaching strategies</u>.</p> <p>Web links provide resources for educators to gain <u>additional background information</u> and to provide <u>extended learning activities in their classrooms</u>.</p>

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