

Intervention Chart

Level: Grades K-12

Subject Area: Science

	Recommendations for Response to Intervention (Rti)	Diagnostic Assessment	Suggested Materials for Tier 1 Interventions	Research-Based Programs and Instructional Activities Interventions for Tier 2 and Tier 3	References for Additional Research-Based Instructional Activities	Progress Monitoring
	<p>The National Science Education Standards recommend the use of multiple assessment methods including “<i>exercises that closely approximate the intended outcomes of science education.</i>” (National Research Council, 1996, p. 78).</p> <p>Recommendations of Science formative assessments require ongoing evaluation of student performance and include:</p> <ol style="list-style-type: none"> Multiple and varied opportunities for teachers to assess student learning immediately and to implement changes based on each student’s data. Frequent administration of brief probes or tests that reveal student thinking and provide immediate feedback on skills currently being taught. Evaluation of student products (written explanations, pictures, portfolio entries, models, graphic organizers) that include student reasoning. Listening to students’ 	<p>District Diagnostic Tests</p> <p>Assessments created by the Department of Curriculum</p> <p>Formative Assessments</p>	<p>SUGGESTED MATERIALS: Interventionist may prescribe intervention using any of the following resources:</p> <p><u>Core Textbook for Appropriate Course</u></p> <p>K-12</p> <ul style="list-style-type: none"> Scopes Daily lesson plans in the 5E model of instruction Daily Bellringers Benchmark Labs CRISS strategies and other content area reading instructional strategies FCAT Explorer Gizmos Brain-Pop Jr. Discovery Education Streaming and BrainPOP Picture-Perfect Science Hands-on activities and lab experiences Science Fair, SECME, and other science clubs/activities Teacher demonstrations, guided practice, and independent practice 	<p>PROGRAMS:</p> <p>All schools have:</p> <ul style="list-style-type: none"> Core Textbook for Appropriate Course Nettrekker Gizmos FCAT Explorer Tutorials FCAT Rx PowerPoint Presentations Science Eduware <p>Some Schools have:</p> <ul style="list-style-type: none"> Saturday Tutorials Peer Tutoring <p>INSTRUCTIONAL ACTIVITIES:</p> <ul style="list-style-type: none"> Differentiated instruction/tiered learning centers Small-group instruction Peer tutoring Saturday tutorials Before and/or after school tutorial or pull-out tutorial <i>FCAT Coach, Measuring Up</i>, or other benchmark review materials <i>Current Science, Science World</i>, or other age-appropriate science publications AIMS lab activities Community Outreach Programs/Speakers (South Florida Science Museum, Palm Beach Zoo, Gumbo Limbo Nature Center, 	<p>PROFESSIONAL RESOURCES</p> <p>FDOE Response to Intervention</p> <p>Science Response to Intervention</p> <p>Response to intervention: A case Illustration.</p> <p>Responsiveness-to-intervention: Lessons learned and to be learned.</p> <p>Dropout Prevention</p> <p>Helping Students Navigate the Path to College: What High Schools Can Do</p> <p>Response to Intervention. The Future for Secondary Schools</p> <p>Florida Response to Intervention</p> <p>Florida Differentiated Accountability</p> <p>Success with Secondary RTI – A Toolkit for Middle and High Schools Wright, J</p> <p>Interventions for Struggling Learners – Putting RTI Into Practice Goodman, G</p> <p>Classroom Instruction that Works Marzano, Pickering, and Pollock</p>	<p>District Developed Performance Tasks</p> <p>District Embedded Assessment Tests</p> <p>Student Portfolios</p> <p>Student Work Folders</p> <p>Course Content Tests</p> <p>Science Diagnostic Tests; Fall/ Winter</p> <p>Formative Tests</p> <p>Science Notebooks</p> <p>Student Presentations</p> <p>Benchmark Labs</p> <p>Bellringers</p>

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	<p>verbal explanations of observed or studied phenomena.</p> <p>5. Observations of students engaged in inquiry processes.</p> <p>Science summative assessments include: Florida Comprehensive Assessment Test (FCAT) Measure Standards This assessment program measures individual student achievement of the Florida Science Standard</p> <p>The FCAT provides parents, teachers, and school districts information about a student's academic strengths and weaknesses.</p> <p>The National Assessment of Educational Progress (NAEP) is a nationally representative continuing assessment of what America's students know and can do in science.</p> <p>Dropout Prevention</p> <p>Helping Students Navigate the Path to College: What High Schools Can Do</p>		<ul style="list-style-type: none"> • Cooperative learning associated with teacher facilitated group activities • Various types of assessments including teacher-created tests, daily quick checks, Comprehension Checks, diagnostics, portfolios/student work folders, Science Notebooks, lab reports, and/or lab practicals • Student Science Textbook • Teacher Edition • Science FCAT Prep Workbook • Practice Workbook • Student Manipulatives • Teacher Resource Book • Science Notetaking Guide • Science Related Activities • Intervention Skills • FCAT Bellringers • DOE Sample Test • Performance Task PowerPoint • National Library of Virtual Manipulatives • Study Guide Workbook 	<p>Preservation Foundation, Arthur R. Marshall Foundation, etc.)</p> <ul style="list-style-type: none"> • Additional time for Science instruction, greater frequency • Small group explicit instruction with the teacher which whenever possible uses a concrete-representational-abstract teaching sequence 	<p>About Teaching Marilyn Burns</p>	

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