

SELF-STUDY GUIDE FOR IMPLEMENTING HIGH SCHOOL ACADEMIC INTERVENTIONS





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SELF-STUDY GUIDE FOR IMPLEMENTING HIGH SCHOOL ACADEMIC INTERVENTIONS

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Introduction

While academic interventions can be implemented in any grade, focusing on interventions in high school is critical because it is often a student's last chance to become ready for the academic demands of postsecondary education and careers.

States across the country are implementing large-scale initiatives focused on delivering academic interventions in the high school grades. This self-study guide provides a template for data collection and guiding questions for discussion that may improve the implementation of high school academic interventions and increase the number of students meeting college and career readiness standards.

This guide is intended to help district- and school-based practitioners conduct selfstudies for planning and implementing high school academic interventions. Self-study is a process of using a guide with predetermined focus areas and questions to collect, share, and discuss data with stakeholders. The process can include teachers, instructional coaches, guidance counselors, school-based administrators, district administrators, and chief academic officers knowledgeable in high school academic interventions. It may help educators ensure strong implementation of interventions and document current practices in implementing a specific academic practice, multitiered system of support, or response to intervention policy. An ideal time for conducting a self-study of implementation of academic interventions is the beginning or end of the school year so that prior-year implementation can be considered and planning can occur for implementation for the next school year.

States, districts, and schools that are implementing or planning to implement high school academic interventions may find this quide helpful as they consider which types of evidence to collect and which components of high school academic interventions are important for evaluating implementation.

Determining and meeting the need for academic interventions

While many districts and schools recognize the need for high school academic interventions, successful implementation is often a challenge. The Self-study Guide for Implementing High School Academic Interventions will be most effective if each school's current situation and needs are considered. Prior to completing this guide, a team of educators at the school might consider current academic intervention needs and practices. This team may consist of teachers, others who deliver academic interventions, and relevant school-based administrators and staff (for example, lead teachers, instructional coaches, response to intervention coordinators, and guidance counselors). As the team completes the guide, the following overarching guestions may be beneficial in determining how interventions are being carried out and what changes may be needed:

- What is the need for academic interventions at my school?
- How are my students performing and how many need to be served?

- In what components of academics (literacy and math) are my students struggling?
- How will we determine which students are served through academic interventions?
- Will additional adults or cross-age tutors enter the classroom to assist the teacher in differentiating instruction in small groups?
- Will students be pulled out of their classroom to receive intervention?
- How many minutes each day, days per week, and weeks per year will students receive intervention?
- What challenges will be encountered when delivering high-quality academic interventions and how can these challenges be overcome?

Purpose and use of the self-study guide

The purpose of the Self-study Guide for Implementing High School Academic Interventions is to help districts and schools:

- Gather baseline information to use in developing an implementation plan for academic interventions.
- Prioritize their needs as they develop their implementation plan for academic interventions.
- Gather progress-monitoring information for continuous improvement of academic interventions.
- Evaluate the implementation of academic interventions.

This guide was designed to promote reflection about current strengths and challenges in planning or implementation, spark conversations among staff, and identify areas for improvement. Based on pilot testing, the use of this guide for school-level self-study will take three to five hours. Time estimates are provided in the process steps outlined in box 1. It may be helpful to elicit input from participating teachers and others who deliver academic interventions, in addition to instructional coaches and school-based administrators.

The self-study guide works best if a dedicated facilitator leads the process for members of the self-study guide team. The facilitator should be knowledgeable in best academic intervention practices from research as well as in intervention policies, procedures, and implementation and should review the guide in detail before the self-study begins. This review will take approximately two hours. The facilitator should also collect relevant data and possible sources of evidence before convening a meeting. The facilitator should be a careful listener and able to lead and structure discussions around collected evidence and decision making processes.

Components of the guide

The Self-study Guide for Implementing High School Academic Interventions consists of the Scoring Guide, Implementation Consensus Rating Form, and Planning Next Steps Form.

Scoring Guide

The Scoring Guide includes guiding questions and potential sources of evidence to support districts and schools in reviewing district- and school-based planning and implementation of interventions. The Scoring Guide is tied to school actions and uses a four-point scale to assess the current status of implementation. The content of the Scoring Guide is based on eight areas: student selection, assessment selection and data use, content and instruction, instructional time, interventionist or teacher selection, professional development and ongoing support, communication, and intervention or classroom environment. An annotated bibliography of the research supporting each scoring guide area is provided in appendix A. Box 1 explains how to use the Scoring Guide.

Implementation Consensus Rating Form

After the *Scoring Guide* is completed, the facilitator guides the self-study team through a consensus rating process. The team uses the *Implementation Consensus Rating Form* to reach agreement on the current status of implementation in the school and on planning the next steps. The most important part of this process for states, districts, and schools is the discussion that goes into consensus rating. The scores on the *Implementation Consensus Rating Form* should reflect this facilitated discussion. Box 1 lists the steps for completing the *Implementation Consensus Rating Form*.

Planning Next Steps Form

The *Planning Next Steps Form* is used to prioritize the areas based on the strength of evidence and importance for success as described in the literature. The self-study team should review the consensus ratings showing a need to develop or improve, identify two or three top priorities from the eight areas for action planning, record the priority areas, complete a detailed plan for next steps and activities, and note any potential challenges. Box 1 explains how to use the *Planning Next Steps Form*.

Box 1. Steps to complete the *Scoring Guide, Implementation Consensus Rating Form*, and *Planning* Next Steps Form

- * Recruit five to seven members who will make up the self-study team, and convene a meeting to complete the self-study process. Select a dedicated and knowledgeable facilitator. Then recruit teachers, others who deliver academic interventions, and relevant school-based administrators (instructional coaches, response to intervention coordinators, lead teachers, and guidance counselors) knowledgeable in academic intervention policies and implementation to complete the team.
- * Present an overview of the self-study process to all team members, including a review of relevant data and possible sources of evidence collected by the facilitator. [Activity length: 30 minutes]
- * Have each team member individually review the content of the Scoring Guide for each specific area that will be rated (for example, Student Selection, Assessment Selection and Data Use, Content and Instruction) and appendix A (Support for Scoring Guide areas). [Activity length: 20 minutes]
- * Discuss any questions asked during the review. Questions should be answered by the facilitator after the overview and document review. [Activity length: 20 minutes]
- * Have each team member rate each area individually using the full Scoring Guide, including a review of relevant data or possible sources of evidence provided by the facilitator. Each team member should rate each area independently to allow each person's voice to be heard. A team member who does not know how to rate a specific area may abstain from rating it. [Activity length: 60 minutes]
- * Vote as a group to reach consensus. There are several steps to consensus voting [Activity length: 90 minutes]:
 - Vote. Ask each team member to provide a numerical ranking (1-4) for each of the
 - Identify frequency. Identify the most frequent number (if three team members vote 3, five vote 2, and two vote 1, the most frequent number that team members voted is 2).
 - Discuss the rationale of the high frequency number. Ask a team member who selected the high frequency number to talk about what motivated that vote.
 - Discuss the rationale of lower frequency numbers. Ask other team members to talk about why they voted in a particular way.
 - · Vote. Use numeric voting a second time. Team members may change their votes based on the discussion.
 - Record rating. If there is consensus (typically determined by majority vote), record the high frequency number on the Implementation Consensus Rating Form. If consensus is not reached (there is no high frequency number), continue discussing and voting until consensus is reached.
 - Continue across all areas. Repeat this process for each area.

- * Discuss and record initial team thoughts on priorities, next steps, and activities on the *Implementation Consensus Rating Form.* [Activity length: 20 minutes]
- * Complete the *Planning Next Steps Form* by leading a discussion with the group about the priorities for action, based on the strength of research on implementation. The facilitator will next lead a discussion for the development of a detailed implementation plan for next steps and activities that are most urgent and actionable. Finally, the facilitator will lead a discussion to capture potential challenges to the plan. [Activity length: 60 minutes]



Self-Study Guide

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Scoring Guide Area 1: Student Selection

A plan is developed and implemented to identify and serve struggling students with timely academic interventions.

Circle the rating that best describes your program's implementation progress for each item.

- 1 = Important, but not feasible now
- 2 = Area to develop or improve
- 3 = Partially in place, under development
- 4 = Already in place
- 1.1 A plan is developed and implemented for timely (in close proximity to the student's first day of school) identification of students who are at risk or failing to meet grade-level academic expectations.

Implementation progress

2

3

4

Possible sources of evidence

- District or school pupil progression plan. (Pupil or student progression plans are typically developed by local school districts and align with state policies to identify criteria — such as course mastery, attendance, and grade point average — that students must meet to be promoted to the next grade.)
- · School improvement plan.
- District or school multitiered system of support or response to intervention plan.
- Documentation of assessments and other early warning system criteria used to identify students' academic skills (including attendance and prior grade retention).
- Documentation of student grades in academic courses and prior assessment scores.
- School schedule for administering academic progress monitoring assessments.

- Are students with academic intervention needs identified through teacher nomination, previous grades, or existing academic assessment data in close proximity to the students' first day of school?
- Who ensures that all students with potential risks have been identified?
- Who administers academic progress monitoring assessments?
- Who interprets the results of the academic progress monitoring assessments and translates to instruction?
- Is there a more efficient way to identify students who are at risk?
- Is prior data available to prioritize placement of low-performing students in interventions?

1.2 A schedule is created and implemented to ensure that struggling students receive academic interventions in a timely (in close proximity to the students' first day of school) manner.

Implementation progress

1 2 3

4

Possible sources of evidence

- District or school pupil progression plan.
- School improvement plan.
- Intervention implementation timeline; high school master schedule.
- Intervention course schedule for individuals delivering academic interventions.
- Intervention course scheduling for students eligible to receive academic interventions.
- Information on progress with prior interventions delivered to students.

- Does the intervention schedule allow additional time as needed for students who are significantly below grade level (more than one class period, before school, after school, winter break, spring break)?
- Does the high school master schedule indicate who will deliver interventions, during what times, in what location, for which students, and in what size of group (intervention class sizes should be smaller than regular academic classes, 15 students or fewer)?
- Is student performance in prior academic interventions considered during intervention placement?
- Does each student's schedule for intervention consider graduation requirements needed and schedule requests (academic course credit requirements, student courses selected for extracurricular activities, other services received)?

Scoring Guide Area 2: Assessment Selection and Data Use

Valid and reliable standardized literacy assessments are selected and used to determine the need for intervention in the domains of vocabulary and comprehension, as well as students' ability to interpret text and derive meaning. Valid and reliable standardized math assessments are selected and used to determine the need for intervention in the domains of conceptual knowledge, procedural knowledge, and procedural flexibility. These assessments are to be aligned with instructional content to track a student's response to intervention and inform intervention placement, focus, duration, and intensity. In addition, inventories to determine students' motivation and engagement in learning are administered to guide the teacher in providing students with meaningful learning opportunities.

Circle the rating that best describes your program's implementation progress for each item.

- 1 = Important, but not feasible now
- 2 = Area to develop or improve
- 3 = Partially in place, under development
- 4 = Already in place
- 2.1 Valid and reliable standardized literacy assessments are selected and used to determine the need for literacy intervention. For high school students the literacy assessments should include measures of embedded vocabulary, comprehension, and the ability to interpret text and derive meaning. For students far below grade level assessments should include measures of potential instructional needs in phonics and decoding multisyllabic words.

Implementation progress

1 2 3 4

Possible sources of evidence

- Documentation of criteria used to select assessments.
- Documentation of assessments used to identify students' vocabulary, comprehension, and interpretation skills.
- District or school pupil progression plan; school improvement plan.
- Documentation of eligibility requirements (cutpoints) for receiving support through multitiered system of support or response to intervention.

- Do the assessments include the most predictive indicators of literacy success in secondary education, higher education, and the workplace, as documented in the technical manual for the assessments?
- What are the eligibility requirements for receiving literacy interventions?
- How does the school determine which level of support eligible students will receive through interventions?

2.2 Valid and reliable standardized math assessments are selected and used to determine the need for		Implementation progress				
intervention, with the focus on improving algebra knowledge. For high school students the math						
assessments should include measures of conceptual knowledge, procedural flexibility.	1	2	3	4		

Possible sources of evidence

- Documentation of criteria used to select assessments.
- Documentation of assessments used to identify students' conceptual knowledge, procedural knowledge, and procedural flexibility.
- District or school pupil progression plan; school improvement plan.
- · Documentation of eligibility requirements (cutpoints) for receiving support through multitiered system of support or response to intervention.

Guiding questions

 Do the assessments include the most predictive indicators of use of math in secondary education, higher education, and the workplace, as documented in the technical manual for the assessments?

- What are the eligibility requirements for receiving math interventions?
- · How does the school determine which level of support eligible students will receive through interventions?

2.3 Formative assessments that align with instructional	Impl	Implementation progress				
goals are used to monitor student response to intervention.	1	2	2			
intervention.	'	2	3	4		

Possible sources of evidence

- Documentation of criteria used to select formative assessments.
- Placement and pacing guidelines from current intervention curricula.
- District or school pupil progression plan; school improvement plan.
- · Multitiered system of support or response to intervention guidelines.

- How are embedded assessment data used to group students for interventions and the focus, length, and intensity of interventions?
- · Are the individuals delivering interventions given support in making instructional and grouping decisions for students receiving interventions? Who provides the support?
- Is there a plan to review student progress in interventions and change intervention placement as needed?

2.4 Data are used by teachers and students to set goals, adjust instructional practices, and guide the selection of curriculum materials in order to enhance student-centered learning, improve student motivation, and increase student engagement.

Implementation progress

2

3

4

Possible sources of evidence

- Learning environment and interest surveys.
- Documented use of school-based facilitators (instructional coaches) for data integration.
- District or school data management plan.
- Results of formative assessments, including embedded assessments.
- District, school, classroom, or publisher's data warehouse.

- How are curriculum materials and topics of study determined?
- What is the variety of data available to teachers and students?
- What informational feedback is available and provided to students?
- What is the level of integration across disciplines and collaboration among teachers?

Scoring Guide Area 3: Content and Instruction

The design of the curriculum and the plan for instruction and interventions reflect instructional practices that have been empirically shown to support gains in student achievement.

Circle the rating that best describes your program's implementation progress for each item.

1 = Important, but not feasible now

1

- 2 = Area to develop or improve
- 3 = Partially in place, under development
- 4 = Already in place
- 3.1 Criteria for selecting and using programs and curricula that have been shown to have a positive effect on student achievement are used (see What Works Clearinghouse, http://ies.ed.gov/ncee/wwc/; Coalition for Evidence-Based Policy, 2003).

Implementation progress

2 3

4

Possible sources of evidence

- Review of criteria for selecting the most effective literacy and math programs and curricula.
- Documentation of program use.
- Professional development records.
- Log or record of literacy and math programs and curricula that are currently available at the school.

- Have criteria been developed to select programs and materials for use with students receiving literacy or math interventions?
- Are all components of selected curricula or programs available in their entirety to ensure that each intervention is delivered the way it was intended to be delivered (with fidelity)?
- Has professional development been provided to individuals delivering interventions to support effective use of selected reading programs and curriculum?

3.2 A plan is developed and implemented for academic interventions that reflects instructional practices empirically shown to increase student achievement.

Implementation progress

1 2

3

4

Possible sources of evidence

- Professional development plans for individuals delivering interventions, including instructional materials, an instructional schedule that maximizes instructional time, and instructional practices empirically shown to affect gains in student achievement.
- Instructional plans for interventions.
- Interviews with instructional coaches, administrators, and educators who implement interventions.
- Intervention session observations.
- Professional development attendance records and evaluations.
- Progress monitoring tools and data.

- Does the professional development offered focus on instructional practices empirically shown to increase student achievement (has been validated with data)?
- Who facilitates the development of instructional plans that are informed by student assessment data?
- Do fidelity observations help verify the implementation and support of effective instructional practices (for example, observations of adherence to program components delivered with quality)?

Scoring Guide Area 4: Instructional Time

The school schedule has allocated sufficient and consistent instructional time to facilitate academic interventions and meet students' instructional needs.

Circle the rating that best describes your program's implementation progress for each item.

- 1 = Important, but not feasible now
- 2 = Area to develop or improve
- 3 = Partially in place, under development
- 4 = Already in place
- 4.1 The school has established a schedule that maximizes instructional time for academic interventions through various formats such as standalone courses, integration of intervention strategies in content area courses, and out-of-school time.

Implementation progress

2 3

4

Possible sources of evidence

- District or school pupil progression plan.
- School master schedule (includes intervention and course schedules).
- Interviews with teachers, instructional coaches, guidance counselors, administrators, and staff to determine best schedules for interventions.

- Where in the school schedule is time provided for academic interventions?
- How does the school schedule provide time for academic interventions above and beyond the minimum or required time already allocated to literacy and math instruction?
- Does the length of time dedicated to academic interventions offer enough intensity and duration for academic growth?
- Are interventions delivered during out-of-school times (before school, after school, breaks)?

4.2 The school has established a schedule that delivers academic interventions with the appropriate frequency, consistency, and duration to meet students' instructional needs.

Implementation progress

1 2

3

4

Possible sources of evidence

- District or school pupil progression plans.
- School master schedule (includes intervention and course schedules).
- Review of student academic and early warning system data.

- According to the master schedule, how many days per week and minutes per day will students receive academic interventions?
- According to diagnostic assessment data, are students receiving enough intervention time to meet their needs?
- Is the intervention schedule being consistently implemented as designed?

Scoring Guide Area 5: Interventionist or Teacher Selection

A plan is developed and implemented to identify or hire, develop, and retain the best possible individuals to deliver academic interventions for struggling students.

Circle the rating that best describes your program's implementation progress for each item.

- 1 = Important, but not feasible now
- 2 = Area to develop or improve
- 3 = Partially in place, under development
- 4 = Already in place
- 5.1 A plan is developed and implemented to identify or hire school faculty and staff who will deliver academic interventions to students daily or nearly daily in small groups. The individuals delivering interventions should be able to teach academic literacy or math skills in an engaging manner to students during classroom intervention or content area instruction.

Implementation progress

2 4

Possible sources of evidence

- Schedules for school faculty and staff (may include content area teachers, instructional coaches, paraprofessionals or instructional assistants, other school staff).
- Documentation of hiring, training, and work hours of individuals identified to deliver intervention.

- How many school faculty and staff who have demonstrated success in teaching academic literacy or math skills are available to deliver academic interventions daily or nearly daily in small groups?
- How many school faculty and staff can be identified who have the ability to be trained to implement effective academic interventions?
- · Do the school faculty and staff selected to deliver interventions have consistent blocks of time in their daily schedule that enable them to work with one or more intervention groups daily or nearly daily? Can schedules be adjusted to allow them to consistently (daily or nearly daily) serve intervention groups?
- · How are teachers' schedules established to provide time for small group instruction or interventions to take place in the classroom?
- How are instructional coaches hired at the school to support intervention teachers?

5.2 A plan is developed and implemented to identify available community volunteers and cross-age tutors who can deliver academic interventions to students daily or nearly daily in small groups.

Implementation progress

2 1

3

4

Possible sources of evidence

- Documentation of current community volunteers and cross-age tutors.
- Schedule of availability for each well-trained community volunteer or cross-age tutor.
- Documentation of partnerships with local colleges and universities and high school leadership organizations.
- Documentation of partnerships with local or national organizations, agencies, and nonprofit groups.

- · Does the district or school recruit, train, and use community volunteers or cross-age tutors to reduce group sizes for implementing academic interventions?
- Do the current or prospective community volunteers and cross-age tutors (older high school or college students, pre-service teachers, mentors, retired teachers, parents, grandparents) have a schedule that enables them to frequently and consistently work with the same academic intervention groups?

Scoring Guide Area 6: Professional Development and Ongoing Support

A plan is developed and implemented to provide professional development and ongoing support to school faculty, staff, and community volunteers delivering academic interventions and strategy instruction for educators delivering initial instruction.

Circle the rating that best describes your program's implementation progress for each item.

1 = Important, but not feasible now

1

- 2 = Area to develop or improve
- 3 = Partially in place, under development
- 4 = Already in place

6.1	A plan is developed and implemented to provide
	professional development for individuals
	delivering academic interventions and academic
	intervention strategies for educators delivering
	initial instruction.

Implementation progress

2 3 4

Possible sources of evidence

- Professional development schedule and training agenda.
- Professional development training materials.
- Professional learning community schedules and agendas.

- Who provides training in academic intervention strategies for educators delivering initial academic instruction through professional development or professional learning communities?
- Who provides training to individuals delivering academic interventions?
- When do individuals delivering academic interventions receive initial training?
- What follow-up and other professional development opportunities are offered and when?

6.2 A plan is developed and implemented to conduct ongoing observations of and provide feedback and support to individuals delivering academic interventions.

Implementation progress

2 1

3

4

Possible sources of evidence

- Academic interventions observation plan.
- Academic interventions fidelity checklist or rubric.
- Interviews with school faculty and staff responsible for organizing the implementation of academic interventions.

- · Has a timeline agreed on by teachers and school leaders been developed for teacher implementation of instructional practices modeled during professional development?
- Does the school use rubrics or checklists to conduct ongoing fidelity observations of individuals delivering interventions? How often?
- Do observations of intervention sessions inform school leaders about the kinds of support and feedback to provide to individuals delivering intervention?

Scoring Guide Area 7: Communication

A plan is developed and implemented to facilitate effective communication and collaboration among administrators, instructional coaches, classroom teachers, intervention teachers, parents, and guidance counselors to ensure that each student's instructional needs are met.

Circle the rating that best describes your program's implementation progress for each

- 1 = Important, but not feasible now
- 2 = Area to develop or improve
- 3 = Partially in place, under development
- 4 = Already in place
- 7.1 A plan is developed and implemented for communication and collaboration that will ensure successful startup of academic interventions.

Implementation progress

2 1

4

Possible sources of evidence

- Documentation of faculty and staff roles and responsibilities.
- · Interviews with administrators and leadership (for example, instructional coaches, response to intervention coaches, special education teachers, guidance counselors, content area teachers).
- Meeting notes from academic intervention planning meetings.
- · Memos from administrators or leadership to classroom teachers.
- Documentation of communication with parents.

- Who is responsible for organizing intervention startup (for example, identifying school personnel and community volunteers who will deliver interventions, identifying training opportunities for those delivering interventions, creating intervention schedules, ensuring timely assessment of students to determine eligibility for intervention, identifying students for intervention placement)?
- · How are parents informed when a student is deemed eligible to receive academic intervention?
- What connections have been made with educators who served students in previous school years?

7.2 A plan is developed that enables teachers, those delivering interventions, and parents to collaborate regularly regarding students' growth in targeted skill areas.

Implementation progress

2 1

3

4

Possible sources of evidence

- Interviews with classroom teachers.
- Interviews with individuals delivering interventions.
- Schedule of collaborative meetings between teachers and individuals implementing interventions.
- · Schedule of conferences with parents.
- Schedule of school-sponsored parent and community academic events.

- Do teachers understand the intervention goals and progress for each student?
- What types of student work and data collected during intervention sessions are shared with classroom teachers and parents?
- How are classroom teachers using information from intervention sessions?
- · What types of student work and data collected during classroom instruction are shared with individuals delivering interventions?
- How is information from classroom teachers used by interventionists?
- Who is facilitating collaborative discussions between teachers and interventionists about students' instructional needs?
- Are parents provided with resources to continue to support and build academic skills in students while at home?

Scoring Guide Area 8: Intervention or Classroom Environment

A healthy and safe learning environment is established that is conducive to student engagement, student productivity, and intensive instruction.

Circle the rating that best describes your program's implementation progress for each item.

- 1 = Important, but not feasible now
- 2 = Area to develop or improve
- 3 = Partially in place, under development
- 4 = Already in place

8.1 A plan is developed and implemented to ensure a	Impl	Implementation progress				
healthy and safe learning environment.	1	2	3	4		

Possible sources of evidence

- Documentation of district or school criteria for instructional environments.
- · Documentation of a custodial or maintenance plan for instructional environments.
- Procedures established for school faculty and staff to report concerns about the instructional environment and for concerns to be addressed quickly.
- Documentation of available instructional spaces to provide consistent academic interventions (inside and outside the classroom).
- · Documentation of instructional materials (complete curricula) and supplies (pencils, paper, calculators, erasers, pencil sharpeners) available and easily accessible for intervention use.

- · Have criteria been developed to select instructional environments for intervention that will provide a healthy and safe learning environment in which distractions are minimized?
- Is there a plan in place to regularly monitor instructional environments to ensure that they remain a healthy and safe learning environment throughout the school year?
- Is instructional space consistently available to provide academic interventions?
- Is the instructional space conducive to student engagement and productivity (for example, physical space, furniture, lighting, minimized outside distractions)?
- Is the instructional environment engaging, conducive to learning, and print rich?
- · Are instructional materials and supplies readily available for use during intervention sessions?

Implementation Consensus Rating Form

(to be completed by the facilitator)

State:		
District:	 	
School:		

Complete this form by recording the results of consensus ratings and discussions from initial self-study results, initial thoughts on priorities, and initial brainstorming ideas for next steps or activities for each area rated 2 or 3 (areas where development is most needed).

1 = Important, but not feasible now

2 = Area to develop or improve *Rating key:*

3 = Partially in place, under development

4 = Already in place

Scoring Guide Area		Conse	ensus			Priorities	Ideas for next steps or activities
1. Student Selection	Part 1.1	1	2	3	4		
	4						
	Part 2.1	1	2	3	4		
2. Assessment Selection and Data Use	Part 2.2	1	2	3	4		
	Part 2.3	1	2	3	4		
	Part 2.4	1	2	3	4		

Scoring Guide Area		Conse	ensus			Priorities	Ideas for next steps or activities
3. Content and	Part 3.1	1	2	3	4		
Instruction	Part 3.2	1	2	3	4		
4. Instructional	Part 4.1	1	2	3	4		
Time	Part 4.2	1	2	3	4		
5. Interventionist or Teacher	Part 5.1	1	2	3	4		
Selection	Part 5.2	1	2	3	4		
6. Professional	Part 6.1	1	2	3	4		
Development and Ongoing Support	Part 6.2	1	2	3	4		
7. Communication	Part 7.1	1	2	3	4		
7. Communication	Part 7.2	1	2	3	4		
8. Intervention or Classroom Environment	Part 8.1	1	2	3	4		

Planning Next Steps Form

(to be completed by the facilitator)

After the Implementation Consensus Rating Form has been completed, the facilitator will begin the completion of this form by leading a discussion with the group about the priorities for action based on the strength of research on implementation. The facilitator will next lead a discussion for the development of a detailed implementation plan for next steps and activities that are most urgent and actionable. Finally, the facilitator will lead a discussion to capture potential challenges to the plan.

Based on group discussion and consensus ratings, list the top priority areas to improve implementation of academic interventions.

Based on group discussion, what next steps and activities are needed to address the listed priorities? Consider timelines and who will be responsible for determining the strategies or providing the resources.

Based on group discussion, what general challenges do you anticipate? How will the challenges be addressed? Consider who will be responsible for addressing these challenges.

Who will be responsible for monitoring progress as the plan is implemented? What will be the timeline for implementation?

Appendix A. Support for *Scoring Guide* areas

This appendix describes key references that provide additional support for each of the Scoring Guide areas.

Scoring Guide Area 1: Student Selection

Fuchs, L. S., Fuchs, D., & Compton, D. L. (2010). Rethinking response to intervention at middle and high school. School Psychology Review, 39(1), 22–28. http://eric.ed.gov/?id=EJ886408

The authors note important differences in student selection for academic interventions at secondary school settings. "At middle and high school, academic deficits are well established. Moreover, because a greater range of performance in the academic domain can be sampled than in the elementary grades, it is easier to design middle and high school tests whereby students do not cluster near the bottom of the scale, creating meaningful distinctions among students with deficits of larger and smaller magnitudes. For these reasons, at middle and high school, it no longer makes sense to allocate scarce resources to screening for the purpose of identifying students at risk for academic failure. It makes more sense to rely on teacher nomination or existing assessment data to identify students with manifested academic difficulties" (p. 24).

"Restricting participation in secondary prevention to students for whom the likelihood of success is good creates a better opportunity to serve this population more effectively, which in turn enhances schools' opportunity to provide appropriately intensive tertiary prevention. This is the case because when secondary prevention is offered to a mix of students, some of whom seem likely to respond and others of whom have such large deficits that secondary prevention's intensity is manifestly insufficient, a higher proportion of both subsets of students may fail to respond, thereby flooding tertiary prevention and watering down the intensity required at the tertiary level. This parallels the need for high-quality primary prevention to avoid overwhelming secondary prevention with inappropriate students and thereby decreasing the intensity available at secondary prevention. For these reasons, moving students with the greatest academic deficits directly to a well-conceptualized, most intensive tertiary prevention level may produce more reliable and substantial outcomes for both subpopulations of students" (p. 25).

Hamilton, L., Halverson, R., Jackson, S., Mandinach, E., Supovitz, J., & Wayman, J. (2009). Using student achievement data to support instructional decision making (NCEE No. 2009–4067). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance. http://eric.ed.gov/?id=ED506645

This practice guide for using student data in decisionmaking recommends that "after triangulating data and considering the extent to which student learning did or did not improve in response to the intervention, teachers can decide whether to keep pursuing the approach in its current form, modify or extend the approach, or try a different approach altogether" (p. 16).

Dynarski, M., Clarke, L., Cobb, B., Finn, J., Rumberger, R., & Smink, J. (2008). *Dropout* prevention: A practice guide (NCEE No. 2008-4025). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance. http://eric.ed.gov/?&id=ED502502

This practice guide recommends that educators "utilize data systems that support a realistic diagnosis of the number of students who drop out and that help identify individual students at high risk of dropping out. States, districts and schools should develop comprehensive, longitudinal, student level databases with unique IDs that, at a minimum, include data on student absences, grade retention, and low academic achievement. Data should be reviewed regularly, with a particular emphasis before the transitions to middle school and high school" (p. 6).

Scoring Guide Area 2: Assessment Selection and Data Use

Kamil, M. L., Borman, G. D., Dole, J., Kral, C. C., Salinger, T., & Torgesen, J. (2008). Improving adolescent literacy: Effective classroom and intervention practices: A practice guide (NCEE No. 2008–4027). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance. http://eric.ed.gov/?id=ED502398

The authors of this practice guide conclude that reading ability is a key predictor of achievement in content area classes, as well as success in the global information economy. The authors recommend explicit instruction and assessments in vocabulary, comprehension, and interpretation skills within the content areas (p. 7). Motivated students are more likely to be engaged and become autonomous, self-directed learners (p. 37).

Pearson, P., Hiebert, E., & Kamil, M. (2007). Vocabulary assessment: What we know and what we need to learn. Reading Research Quarterly, 42(2), 282–296. http://eric.ed.gov/?id=EJ760266

Vocabulary is closely tied to comprehension. The authors assert that there are different vocabulary types: listening, speaking, reading, and writing and caution that when selecting the assessment of vocabulary the type of vocabulary intended to be assessed must be considered. The authors further advise that selection of the assessment must go beyond tradition, convenience, psychometric standards, and economy of effort and move toward selecting assessments in which words are contextually embedded (p. 284).

Hamilton, L., Halverson, R., Jackson, S., Mandinach, E., Supovitz, J., & Wayman, J. (2009). Using student achievement data to support instructional decision making (NCEE No. 2009–4067). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance. http://eric.ed.gov/?id=ED506645

The authors recommend a systemic process of annual, interim, and classroom assessment for collecting data to inform instruction (p. 10). The data from these assessments are to be used by educators to guide the intervention practices. The recommendations in this practice guide are applied to the data cycle used for improving math instruction to meet

the student's learning needs (p. 8). Data are used to inform classroom-level instructional decisions such as how to structure instructional time and the level of intervention (p. 8). The assessments are embedded within the learning activity and linked to the current unit of instruction (p. 47). Specific feedback increases student confidence and motivation (p. 22).

Star, J. R., Foegen, A., Larson, M. R., McCallum, W. G., Porath, J., Zbiek, R. M., et al. (2015). Teaching strategies for improving algebra knowledge in middle and high school students (NCEE No. 2014–4333). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance. http://eric.ed.gov/?id=ED555576

This practice guide notes that math assessments should include measures of conceptual knowledge, procedural knowledge, and procedural flexibility (p. 3).

Scoring Guide Area 3: Content and Instruction

Early, D., Berg, J. K., Alicea, S., Si, Y., Aber, J. L., Ryan, R. M., et al. (2016). The impact of Every Classroom, Every Day on high school student achievement: Results from a schoolrandomized trial. Journal of Research on Educational Effectiveness, 9(1), 3–29. http://eric.ed.gov/?id=EJ1089961

This study, focused on improving high school math and literacy outcomes, notes the importance of "three key components of high-quality instruction that are linked to academic achievement (Early, Rogge, & Deci, 2014): (a) engagement of all students in their learning, (b) alignment of what is taught with state and national standards and high-stakes assessments, and (c) rigor in the content and methods of instruction" (p. 4).

Coalition for Evidence-Based Policy. (2003). Identifying and implementing educational practices supported by rigorous evidence: A user friendly guide. Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Evaluation and Regional Assistance. http://eric.ed.gov/?id=ED477483

This guide emphasizes the importance of using high-quality tools that are supported by rigorous evidence. "This Guide seeks to provide assistance to educational practitioners in evaluating whether an educational intervention is backed by rigorous evidence of effectiveness, and in implementing evidence-based interventions in their schools or classrooms. By intervention, we mean an educational practice, strategy, curriculum, or program" (p. 1).

Foorman, B., & Wanzek, J. (2015). Classroom reading instruction for all students. In S. R. Jimerson, M. K. Burns, & A. M. VanDerHeyden (Eds.), The handbook of response to intervention: The science and practice of multi-tiered systems of support (pp. 235–252). New York, NY: Springer Science, Inc.

This chapter highlights the importance of providing instruction in language skills as part of literacy instruction. Specifically, the authors indicate that focusing on academic language development can contribute to comprehension of text as it becomes increasingly complex

in the later grades.

Fuchs, L. S., Fuchs, D., & Compton, D. L. (2010). Rethinking response to intervention at middle and high school. School Psychology Review, 39(1), 22–28. http://eric.ed.gov/?id=EJ886408

The authors note that "the greatest potential for accelerating the academic progress of most difficult-to-teach learners... the teacher begins with a more intensive validated tutoring program, while conducting frequent progress monitoring to tailor that program for maximal effectiveness" (p. 24).

Kamil, M. L., Borman, G. D., Dole, J., Kral, C. C., Salinger, T., & Torgesen, J. (2008). *Improving* adolescent literacy: Effective classroom and intervention practices: A practice quide (NCEE No. 2008–4027). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance. http://eric.ed.gov/?id=ED502398

This guide for improving adolescent literacy classroom and intervention practices notes that "teachers should provide students with explicit vocabulary instruction both as part of reading and language arts classes and as part of content-area classes such as science and social studies. By giving students explicit instruction in vocabulary, teachers help them learn the meaning of new words and strengthen their independent skills of constructing the meaning of text" (p. 11). Another recommendation notes that "teachers should provide adolescents with direct and explicit instruction in comprehension strategies to improve students' reading comprehension" (p. 16). In addition, the practice guide recommends that "teachers should provide opportunities for students to engage in high-quality discussions of the meaning and interpretation of texts in various content areas as one important way to improve their reading comprehension" (p. 21). A final recommendation notes that "teachers should use strategies to enhance students' motivation to read and engagement in the learning process" (p. 26).

Wanzek, J., Vaughn, S., Scammacca, N. K., Metz, K., Murray, C. S., Roberts, G., et al. (2013). Extensive reading interventions for students with reading difficulties after grade 3. Review of Educational Research, 83(2), 163–195. http://eric.ed.gov/?id=EJ1001658

The authors found that "adolescence is not too late to intervene in reading and that student achievement in comprehension, word recognition, fluency, word reading fluency, and spelling can be improved in small amounts through extensive interventions" (p. 29).

Star, J. R., Foegen, A., Larson, M. R., McCallum, W. G., Porath, J., Zbiek, R. M., et al. (2015). Teaching strategies for improving algebra knowledge in middle and high school students (NCEE No. 2014–4333). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance. http://eric.ed.gov/?id=ED555576

The authors of this practice guide recommend that teachers use solved problems to engage students in analyzing algebraic reasoning and strategies, teach students to use the structure of algebraic representations, and teach different algebraic representations to convey different information about an algebra problem (p. 2).

Gersten, R., Chard, D. J., Jayanthi, M., Baker, S. K., Morphy, P., & Flojo, J. (2008). *Mathematics* instruction for students with learning disabilities or difficulty learning mathematics: A synthesis of the intervention research. Portsmouth, NH: Center on Instruction. http://eric.ed.gov/?id=ED521890

The findings of this meta-analysis recommend the following approaches to instruction or curricular design for math intervention: explicit instruction, student verbalization of their mathematical reasoning, visual representations, range and sequence of examples, multiple and heuristic strategies, giving teachers ongoing formative assessment data and feedback on students' math performance, providing data and feedback to students on their math performance, and peer-assisted math instruction (p. 1–3).

Pashler, H., Bain, P. M., Bottge, B. A., Graesser, A., Koedinger, K., McDaniel, M., et al. (2007). *Organizing instruction and study to improve student learning* (NCER No. 2007–2004). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Research. http://eric.ed.gov/?id=ED498555

This practice guide provides recommendations for organizing instruction and study to improve learning. These practices include spacing learning over time, having students alternate between worked solutions and trying to solve problems on their own, combining graphics with verbal descriptions, connecting and integrating abstract and concrete representations of concepts, using quizzing to promote learning, helping students to allocate study time efficiently, and asking deep explanatory questions (p. 2).

Gersten, R., Beckmann, S., Clarke, B., Foegen, A., Marsh, L., Star, J. R., et al. (2009). Assisting students struggling with mathematics: Response to Intervention (Rtl) for elementary and middle schools (NCEE No. 2009–4060). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance. http://eric.ed.gov/?id=ED504995

The authors discuss the importance of mastering foundational mathematics skills in intervention. "Tier 2 and tier 3 instruction focuses on foundational and often prerequisite skills that are determined by the students' rate of progress. So, in the opinion of the panel, acquiring these skills will be necessary for future achievement. Additionally, because tier 2 and tier 3 are supplemental, students will still be receiving core classroom instruction aligned to a school or district curriculum (tier 1)" (p. 20).

Scoring Guide Area 4: Instructional Time

Kamil, M. L., Borman, G. D., Dole, J., Kral, C. C., Salinger, T., & Torgesen, J. (2008). Improving adolescent literacy: Effective classroom and intervention practices: A practice guide (NCEE No. 2008–4027). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance. http://eric.ed.gov/?id=ED502398

The authors of this practice guide note that, "the recommendations are representative of panel members' thinking about methods that have the strongest research support and those that are appropriate for use with adolescents. The first four recommendations

(explicit vocabulary instruction, direct and explicit comprehension strategy instruction, opportunities for extended discussion of text meaning and interpretation, and increasing student motivation and engagement in literacy learning) can be implemented easily by classroom teachers within their regular instruction, regardless of the content areas they teach" (p. 8). The final recommendation of this practice guide (make available intensive individualized interventions for struggling readers that can be provided by qualified specialists) specifically notes that interventions should be provided where intensiveness matches student needs or "the greater the instructional need, the more intensive the intervention" (p. 10). The authors note that if the instructional quality is high, intensity of intervention is "related most directly to the size of instructional groups and amount of instructional time" (p. 10).

Biancarosa, G., & Snow, C. (2006). Reading next—A vision for action and research in middle and high school reading: A report to the Carnegie Corporation of New York (2nd Ed.). Washington, DC: Alliance for Excellent Education. Retrieved July 5, 2016, from https://www.carnegie.org/media/filer_public/b7/5f/b75fba81-16cb-422d-ab59-373a6a07eb74/ccny report 2004 reading.pdf.

The authors note the importance of devoting a substantial amount of daily instructional time to literacy skills. "The panel strongly argued the need for two to four hours of literacyconnected learning daily. This time is to be spent with texts and a focus on reading and writing effectively. Although some of this time should be spent with a language arts teacher, instruction in science, history, and other subject areas qualifies as fulfilling the requirements of this element if the instruction is text centered and informed by instructional principles designed to convey content and also to practice and improve literacy skills. To leverage time for increased interaction with texts across subject areas, teachers will need to reconceptualize their understanding of what it means to teach in a subject area. In other words, teachers need to realize they are not just teaching content knowledge but also ways of reading and writing specific to a subject area" (p. 20).

Gersten, R., Beckmann, S., Clarke, B., Foegen, A., Marsh, L., Star, J. R., et al. (2009). Assisting students struggling with mathematics: Response to Intervention (RtI) for elementary and middle schools (NCEE No. 2009–4060). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance. http://eric.ed.gov/?id=ED504995

The authors focus on targeting additional time for students needing additional support in math instruction. "In tier 2 interventions, schools provide additional assistance to students who demonstrate difficulties on screening measures or who demonstrate weak progress. Tier 2 students receive supplemental small group mathematics instruction aimed at building targeted mathematics proficiencies. These interventions are typically provided for 20 to 40 minutes, four to five times each week. Student progress is monitored throughout the intervention" (p. 5).

Beckett, M., Borman, G., Capizzano, J., Parsley, D., Ross, S., Schirm, A., et al. (2009). Structuring out-of-school time to improve academic achievement: A practice guide. (NCEE No. 2009–012). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance. http://eric.ed.gov/?id=ED505962

The authors of the practice guide recommend that out-of-school time programs align academically with instruction occurring during the school day. They also recommend efforts to maximize student participation and attendance. Finally, the authors recommend that educators adapt instruction to individual and small group needs (p. 11).

Dynarski, M., Clarke, L., Cobb, B., Finn, J., Rumberger, R., & Smink, J. (2008). Dropout prevention: A practice quide (NCEE No. 2008–4025). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance. http://eric.ed.gov/?&id=ED502502

This practice guide recommends that schools provide academic support and enrichment to improve academic performance. "Research shows that low academic performance, absenteeism, and grade retention are related to dropping out. Providing academic supports, such as tutoring or enrichment programs, helps address skill gaps and offset a cycle of frustration" (p. 22).

Scoring Guide Area 5: Interventionist or Teacher Selection

Fuchs, L. S., Fuchs, D., & Compton, D. L. (2010). Rethinking response to intervention at middle and high school. School Psychology Review, 39(1), 22-28. http://eric.ed.gov/?id=EJ886408

The authors note that it is important that "teachers view their mission as reducing and eliminating already existing, sizable academic deficits" (p. 26).

Wanzek, J., Vaughn, S., Scammacca, N. K., Metz, K., Murray, C. S., Roberts, G., et al. (2013). Extensive reading interventions for students with reading difficulties after grade 3. Review of Educational Research, 83(2), 163-195. http://eric.ed.gov/?id=EJ1001658

The authors note the importance of teacher understanding of how to adequately differentiate instruction (p. 25).

Biancarosa, G., & Snow, C. (2006). Reading next—A vision for action and research in middle and high school reading: A report to the Carnegie Corporation of New York (2nd Ed.). Washington, DC: Alliance for Excellent Education. Retrieved July 5, 2016, from https://www.carnegie.org/media/filer_public/b7/5f/b75fba81-16cb-422d-ab59-373a6a07eb74/ccny_report_2004_reading.pdf.

The authors note that it is important for teachers providing core instruction and intervention in secondary schools to understand "effective instructional principles embedded in content, including language arts teachers using content-area texts and content-area teachers providing instruction and practice in reading and writing skills specific to their subject area" (p. 4). Teachers "should assume leadership roles and spearhead curricular improvements" (p. 21). "The vision for an effective literacy program recognizes that creating fluent and proficient readers and writers is a very complex task and requires that teachers coordinate their instruction to reinforce important strategies and concepts" (p. 22). "Other important contextual information, such as teacher experience and education, should be tracked as well" (p. 27).

Fixsen, D. L., Blase, K. A., Naoom, S. F., & Wallace, F. (2009). Core implementation components. Research on Social Work Practice, 19(5), 531–540. http://eric.ed.gov/?id=EJ852125

The authors focus on staff selection as an important area of implementation. "Who is qualified to carry out the evidence-based practice or program? What are the methods for recruiting and selecting practitioners with those characteristics? Beyond academic qualifications or experience factors, certain practitioner characteristics are difficult to teach in training sessions so must be part of the selection criteria (e.g., knowledge of the field, basic professional skills, common sense, sense of social justice, ethics, willingness to learn, willingness to intervene, good judgment, empathy)" (p. 533).

Gersten, R., Chard, D. J., Jayanthi, M., Baker, S. K., Morphy, P., & Flojo, J. (2008). Mathematics instruction for students with learning disabilities or difficulty learning mathematics: A synthesis of the intervention research. Portsmouth, NH: Center on Instruction. http://eric.ed.gov/?id=ED521890

It is important for math interventionists to know how to implement instructional practices such as explicit instruction, visual representations, using a range and sequence of examples, and using multiple and heuristic strategies (p. 1–3).

Beckett, M., Borman, G., Capizzano, J., Parsley, D., Ross, S., Schirm, A., et al. (2009). Structuring out-of-school time to improve academic achievement: A practice guide. (NCEE No. 2009–012). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance. http://eric.ed.gov/?id=ED505962

The authors discuss the importance of staff selection when hiring for out-of-school time programs. "Although little is known about the methods or characteristics that define effective teachers, researchers have discovered that some teachers are much better than others at helping students achieve significant achievement gains during the school day. For direct instruction or supervisory roles, the panel recommends hiring classroom teachers who demonstrate success during the school day, and the school can support these efforts. To identify effective teachers to employ as the OST coordinator or as an OST instructor, OST programs can seek out award-winning teachers or work with administrators to identify effective teachers" (p. 17).

Biancarosa, G., & Snow, C. (2006). Reading next—A vision for action and research in middle and high school reading: A report to the Carnegie Corporation of New York (2nd Ed.). Washington, DC: Alliance for Excellent Education. Retrieved July 5, 2016, from https://www.carnegie.org/media/filer_public/b7/5f/b75fba81-16cb-422d-ab59-373a6a07eb74/ccny_report_2004_reading.pdf.

The authors note the importance of providing additional time for students needing intensive intervention by tutors who may work during out-of-school time. "Some students require or would benefit from intense, individualized instruction. This is particularly true of the student who struggles with decoding and fluency, but is also true of students requiring short-term, focused help. Such students should be given the opportunity to

participate in tutoring, which need not occur only during the school day" (p. 18).

Gersten, R., Chard, D. J., Jayanthi, M., Baker, S. K., Morphy, P., & Flojo, J. (2008). Mathematics instruction for students with learning disabilities or difficulty learning mathematics: A synthesis of the intervention research. Portsmouth, NH: Center on Instruction. http://eric.ed.gov/?id=ED521890

The authors find that providing cross-age tutors, community volunteers, or other available tutors may benefit students needing intervention. "Findings do seem stronger for tutoring by a trained, older and/or more proficient student than by a peer" (p. 20).

Fixsen, D. L., Blase, K. A., Naoom, S. F., & Wallace, F. (2009). Core implementation components. Research on Social Work Practice, 19(5), 531–540. http://eric.ed.gov/?id=EJ852125

The authors note that simple-to-implement programs using volunteer tutors may be beneficial. "Some programs are purposefully designed to be very simple in order to minimize the need for careful selection (e.g., a reading tutoring program designed to be staffed by volunteers)" (p. 533).

Scoring Guide Area 6: Professional Development and Ongoing Support

Early, D., Berg, J. K., Alicea, S., Si, Y., Aber, J. L., Ryan, R. M., et al. (2016). The impact of Every Classroom, Every Day on high school student achievement: Results from a schoolrandomized trial. Journal of Research on Educational Effectiveness, 9(1), 3–29. http://eric.ed.gov/?id=EJ1089961

The interventions provided in this study include "three primary components: (a) systematic classroom observations by school leaders, (b) intensive professional development and support for math teachers and instructional leaders to reorganize math instruction, assessment, and grading around mastery of benchmarks, and (c) a structured literacy curriculum that supplements traditional English courses, with accompanying professional development and support for teachers surrounding its use" (p. 3).

Fletcher, J. M., & Vaughn, S. (2009). Response to intervention: Preventing and remediating academic difficulties. Child Development Perspectives, 3(1), 30–37.

The authors note that in providing academic interventions for students, "classroom teachers receive professional development in effective instruction and ways to enhance differentiation and intensity through flexible grouping strategies and evaluations of progress (Tier 1, primary intervention)" (p. 31).

Vaughn, S., Cirino, P. T., Wanzek, J., Wexler, J., Fletcher, J. M., Denton, C. D., et al. (2010). Response to intervention for middle school students with reading difficulties: Effects of a primary and secondary intervention. School Psychology Review, 39(1), 3. http://eric.ed.gov/?id=EJ886407

The authors note the importance of professional development for content area teachers offering literacy strategies embedded in their courses across the school day. "All students received the benefits of content area teachers who participated in researcher-provided professional development designed to integrate vocabulary and comprehension practices throughout the school day (Tier 1)" (p. 1).

"The research team provided the interventionists with approximately 60 hr of professional development prior to teaching. This training included sessions related to the standardized intervention, the needs of the adolescent struggling reader, and principles of promoting active engagement in the classroom as well as other features of effective instruction and behavior management. They also received an additional 9 hr of professional development related to the intervention throughout the year and participated in biweekly staff development meetings with ongoing on-site feedback and coaching (once every 2–3 weeks)" (p. 7).

Averill, O. H., Baker, D., & Rinaldi, C. (2014). A blueprint for effectively using RTI intervention block time. Intervention in School and Clinic, 50(1), 29–38. http://eric.ed.gov/?id=EJ1037909

The authors note the importance of using data to determine professional development needs. "The RTI steering committee should then use student data to discuss areas in which interventions or assessments are still needed. By comparing areas of need with the interventions and assessments currently available, the committee will be able to identify gaps. Once these gaps are identified, the committee can think about creating a professional development (PD) plan for the upcoming year that targets areas of highest need. A PD plan for the year may include finding time for teachers to teach each other or to swap intervention programs to learn and use" (p. 31).

Star, J. R., Foegen, A., Larson, M. R., McCallum, W. G., Porath, J., Zbiek, R. M., et al. (2015). Teaching strategies for improving algebra knowledge in middle and high school students (NCEE No. 2014-4333). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance. http://eric.ed.gov/?id=ED555576

The practice guide notes the potential of using the recommendations to provide professional development, "Administrators and professional development providers can use the guide to implement evidence-based instruction and align instruction with state standards or to prompt teacher discussion in professional learning communities" (p. 3).

Fixsen, D. L., Blase, K. A., Naoom, S. F., & Wallace, F. (2009). Core implementation components. Research on Social Work Practice, 19(5), 531–540. http://eric.ed.gov/?id=EJ852125

The authors note the importance of professional development and feedback loops to implementation. "Innovations such as evidence-based practices and programs represent new ways of providing treatment and support. To be effective, practitioners (and others) at an implementation site need to learn when, where, how, and with whom to use new approaches and new skills. Even though they are ineffective implementation strategies when used alone, preservice and in-service training are efficient ways to provide

knowledge of background information, theory, philosophy, and values; introduce the components and rationales of key practices; and provide opportunities to practice new skills and receive feedback in a safe training environment" (p. 534).

"Feedback loops are critical to keeping the evidence-based program"on track" in the midst of a sea of change. If the feedback loops indicate needed changes, then the integrated system needs to be adjusted to improve effectiveness or efficiency" (p. 535).

Gersten, R., Chard, D. J., Jayanthi, M., Baker, S. K., Morphy, P., & Flojo, J. (2008). Mathematics instruction for students with learning disabilities or difficulty learning mathematics: A synthesis of the intervention research. Portsmouth, NH: Center on Instruction. http://eric.ed.gov/?id=ED521890

The authors note the importance of tutor training. "A critical feature in the studies we reviewed is the amount and extent of training provided to students who assumed the role of tutor. Among these six studies, it generally appears that the training provided to tutors was sufficient for them to perform their tasks" (p. 20).

Beckett, M., Borman, G., Capizzano, J., Parsley, D., Ross, S., Schirm, A., et al. (2009). Structuring out-of-school time to improve academic achievement: A practice guide (NCEE No. 2009–012). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance. http://eric.ed.gov/?id=ED505962

The authors note the benefit of experienced teacher mentoring and feedback. "Teachers can use their experience to advise and mentor less-experienced out-of-school time instructors or volunteers, especially when budgets are tight or sufficient numbers of experienced teachers are not available" (p. 17). "Schools should observe OST instruction and student management, recreational time, and the day-to-day operation of the program" (p. 35).

Wasik, B. A. (1998a). Using volunteers as reading tutors: Guidelines for successful practices. The Reading Teacher, 51(7), 562–570. http://eric.ed.gov/?id=EJ562450

This study outlines key components for effective tutoring programs. Two of the key elements for a successful tutoring program are for tutors to be well trained so they have a basic understanding of the reading process and to be supervised by a reading specialist. The reading specialist should observe the volunteers and give them constant feedback and ongoing support in order to have the greatest positive impact on students.

Wasik, B. A. (1998b). Volunteer tutoring programs in reading: A review. Reading Research Quarterly, 33(3), 266–291. http://eric.ed.gov/?id=EJ571662

This article reviewed research findings and recommends that tutors be trained on specific scaffolding and modeling techniques in order to be successful. It suggests that tutors who do not have adequate training and support could be more of a hindrance than a support to struggling students.

Dynarski, M., Clarke, L., Cobb, B., Finn, J., Rumberger, R., & Smink, J. (2008). *Dropout* prevention: A practice guide (NCEE No. 2008–4025). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance. http://eric.ed.gov/?&id=ED502502

This practice guide recommends that educators provide rigorous and relevant instruction to better engage students in learning and provide the skills needed to graduate and to serve them after they leave school. "Reforms to provide relevant instruction emphasize professional development for teachers so that classroom instruction meets the needs of all students" (p. 34).

Scoring Guide Area 7: Communication

Gonzalez-DeHass, A. R., Willems, P. P., & Holbein, M. F. D. (2005). Examining the relationship between parental involvement and student motivation. Educational Psychology Review, 17(2), 99–123. http://eric.ed.gov/?id=EJ732429

The authors found that when parents are involved, students have increased motivation, effort, concentration, attention, and positive outcomes in reading. The authors define parent involvement as parent participation in parent-teacher conferences, school functions, engaging in activities at home, engaging in student extracurricular activities, and parent influence and input regarding academic progress and decisions.

Gersten, R., Beckmann, S., Clarke, B., Foegen, A., Marsh, L., Star, J. R., et al. (2009). Assisting students struggling with mathematics: Response to Intervention (Rtl) for elementary and middle schools (NCEE No. 2009–4060). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance. http://eric.ed.gov/?id=ED504995

The authors of this practice guide note the importance of schoolwide communication and collaboration. "Rtl intentionally cuts across the borders of special and general education and involves school-wide collaboration" (p. 9).

Wasik, B. A. (1998a). Using volunteers as reading tutors: Guidelines for successful practices. The Reading Teacher, 51(7), 562–570. http://eric.ed.gov/?id=EJ562450

This study outlines key components for effective tutoring programs. It suggests that tutoring needs to be coordinated with classroom instruction. However, tutoring can go a step beyond classroom instruction by presenting strategies and providing explanations that students would not receive during typical classroom instruction.

Wasik, B. A. (1998b). Volunteer tutoring programs in reading: A review. Reading Research Quarterly, 33(3), 266–291. http://eric.ed.gov/?id=EJ571662

This article reviewed research and concludes that a consistent feature of successful tutoring is coordination between the volunteer program (tutoring) and classroom instruction. It highlights that it would be confusing for struggling students to learn different and inconsistent approaches to reading.

Hamilton, L., Halverson, R., Jackson, S., Mandinach, E., Supovitz, J., & Wayman, J. (2009). Using student achievement data to support instructional decision making (NCEE No. 2009–4067). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance. http://eric.ed.gov/?id=ED506645

The authors of this practice guide focus on data leadership that leads to schoolwide and parent communication and collaboration. "The data team should provide guidance on using data to support the school's vision, with the ultimate aim of developing the capacity of all school staff to use data. At the outset, members of the data team should regularly interact with school staff about data and its uses, oftentimes serving as data facilitators. Team members can educate school staff, district representatives, or parents about the school's vision for data use by having individual or small group meetings focused on these topics" (p. 29).

Beckett, M., Borman, G., Capizzano, J., Parsley, D., Ross, S., Schirm, A., et al. (2009). Structuring out-of-school time to improve academic achievement: A practice guide. (NCEE No. 2009–012). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance. http://eric.ed.gov/?id=ED505962

The authors of this practice guide recommend alignment of out-of-school time programs academically with the school day. "In the panel's opinion, collaboration can improve academic outcomes and in the studies reviewed for this guide, two independent evaluators recommended that collaboration between in-school time and OST be strengthened if possible" (p. 49).

Scoring Guide Area 8: Intervention or Classroom Environment

Averill, O. H., Baker, D., & Rinaldi, C. (2014). A blueprint for effectively using RTI intervention block time. *Intervention in School and Clinic*, 50(1), 29–38. http://eric.ed.gov/?id=EJ1037909

The article highlights the impact physical space can have on students' learning and behavior during intervention. The authors recommend selecting a space that can be consistently available and close to the students' classroom to minimize transition time and maximize learning time. The authors also recommend arranging the space to maximize efficient delivery of the intervention.

"Some of the things that the RTI steering committee should consider include (a) identifying appropriate assessment and intervention resources, (b) determining professional development needs to improve capacity for intervention delivery, (c) using personnel resources in the most effective way, (d) optimizing the physical space available to deliver interventions, and (e) structuring the time to deliver interventions and engage students who are not receiving intervention" (p. 31).

Tanner, C. K. (2008). Explaining relationships among student outcomes and the school's physical environment. Journal of Advanced Academics, 19(3), 444–471. http://eric.ed.gov/?id=EJ810757

This work explored the relationship between schools' physical environment and student outcomes. Physical environment was "defined as four sets of design patterns: movement and circulation, large group meeting places, day lighting and views, and instructional neighborhoods" (p. 445). It was found that each of the "four design variables was positively related to student achievement, even after controlling for school SES" (p. 445).

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This Self-study Guide for Implementing High School Academic Interventions was developed to help district- and school-based practitioners conduct self-studies for planning and implementing high school academic interventions. It is intended to promote reflection about current strengths and challenges in planning for implementation of high school academic interventions, spark conversations among staff, and identify areas for improvement. This guide provides a template for data collection and guiding questions for discussion that may improve the implementation of high school academic interventions and decrease the number of students failing to graduate from high school on time.



