## The Effects of a Principal Professional Development Program Focused on Instructional Leadership

Mariesa Herrmann Melissa Clark Susanne James-Burdumy Christina Tuttle Tim Kautz Virginia Knechtel Dallas Dotter Claire Smither Wulsin John Deke *Mathematica* 



NATIONAL CENTER FOR EDUCATION EVALUATION AND REGIONAL ASSISTANCE Principals can play a key role in improving instruction and student achievement. The Institute of Education Sciences conducted a random assignment study of a professional development program for elementary school principals to support state and local efforts to improve school leadership. The program focused on helping principals conduct structured observations of teachers' classroom instruction and provide targeted feedback. It provided nearly 200 hours of professional development over two years, half of it through individualized coaching. Key findings include:

- Despite substantially increasing the amount of professional development principals received, the program did not affect student achievement or most teacher or school outcomes. For example, the professional development did not affect school climate or principal retention.
- The program did not have the intended effects on principal practices that it targeted, which may explain its lack of effects on key student, teacher, and school outcomes. For example, it decreased the frequency of instructional support and feedback teachers received from principals, and it did not affect the number of teacher observations principals conducted or the usefulness of the feedback as reported by teachers.

A number of studies suggest that principals can be critical to the success of their schools.<sup>i</sup> Perhaps because of this, the recent reauthorization of the Elementary and Secondary Education Act gives states and districts flexibility to use federal funds to support principal leadership. For example, states and districts can use these funds to provide principals with professional development on observing classroom instruction, providing feedback to teachers, and using evaluation results to inform decisions about teachers' professional development and retention.

Principal professional development programs use different approaches to improve principals' performance, but there is limited research to guide their design and use. The only previous large-scale random assignment study of intensive principal professional development found that the McREL Balanced Leadership Program—which focuses on 21 leadership responsibilities—had limited effects on principals' practices and no effects on student achievement.<sup>ii</sup> However, some less rigorous studies of the National Institute for School Leadership's Executive Development program—which focuses on strategic thinking, coaching teachers, and driving and sustaining transformation—have found more positive effects.<sup>iii</sup>

To expand the available evidence on ways to improve principals' performance and student achievement, the U.S. Department of Education's Institute of Education Sciences conducted a rigorous, large-scale evaluation of a specific approach to principal professional development. This approach sought to improve three areas of principals' practices:

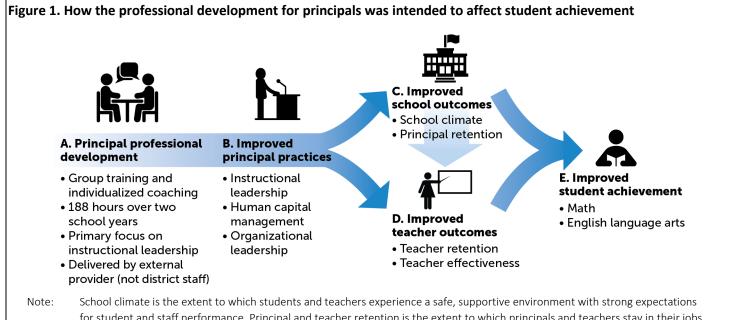
- 1. Instructional leadership: Helping teachers improve instruction by observing teachers, using data from observations to provide feedback, and selecting curricula.
- 2. Human capital management: Developing teachers and other staff by recruiting, managing, and retaining effective teachers and arranging professional development tailored to their needs.
- **3. Organizational leadership:** Developing the school as an organization by setting a school mission, improving school climate and culture, and deploying resources aligned with strategic goals.

The Department competitively selected the Center for Educational Leadership (CEL) at the University of Washington to deliver the professional development program. At that time, CEL's program was in wide use—it had implemented customized versions of its principal professional development in more than 100 school systems across nearly 30 states. Although CEL's program included aspects of all three of the areas listed above, it emphasized instructional leadership. The program encouraged principals to conduct frequent classroom observations and document what teachers and students did and said in the classroom using a nonjudgmental, fact-based approach. An instructional framework and observation rubric guided principals' observations and documentation.<sup>iv</sup> The program asked principals to use this documentation to provide feedback to teachers. This emphasis was based on evidence suggesting the importance of principals using observation results and providing feedback to help improve the quality of teachers' instruction.<sup>v</sup> (See Appendix A for more

details about the instructional framework, focus, structure, and implementation of the study's professional development program.)

The study's principal professional development program was intended to improve principals' practices in ways that would boost teacher effectiveness and school climate and, in turn, student achievement (Figure 1). It aimed to deliver a total of 188 hours of professional development over two years, including:

- An in-person summer institute to introduce all the principals participating in the program to CEL's approach to instructional leadership (28 hours in the first year only);
- In-person group trainings in each district during the school year to provide principals with hands-on experience observing teachers and opportunities to discuss approaches to providing feedback to teachers (54 hours in the first year only);
- Quarterly virtual professional learning community sessions for principals to meet with other principals and CEL coaches outside their district to discuss issues they were facing in their schools (6 hours in the first year only); and
- Individualized coaching (both in-person and virtual) where principals worked with their CEL coach to identify areas of focus, set specific goals for those areas, implement strategies to address those goals, and analyze the effects of those strategies (100 hours total; 50 hours in each of the two years of the program).



for subsequent school years.

The program was intended to supplement, rather than replace, any professional development that the district already provided to principals, although none of the districts offered principals intensive professional development. At the start of the study, coaches coordinated with districts to learn about any district-provided principal professional development and strategize about how their training and coaching could complement what districts were already doing. To connect their work with district priorities, coaches tried to use language that aligned with district and state standards and, where applicable, with the districts' framework for conducting teacher observations. In addition, coaches kept district staff and principals' supervisors informed about the program schedule and content. District staff did not help develop or deliver the program.

The study evaluated the program in 100 lower-performing elementary schools across eight districts (Exhibit 1). The study team randomly assigned schools to either participate in the program or not, but all principals continued to have access to any regular, district-provided professional development. By comparing the two sets of schools, the study can assess differences in the amount and types of professional development principals received and any effects expected to result from that, such as differences in principals' practices, school climate, and student achievement. Multiple sources of data were collected to provide information about these outcomes, but principals' feedback to teachers and the quality of teachers' instruction were not directly observed.<sup>vi</sup> The study examined outcomes for the two sets of schools in the two school years that the program was implemented—2015–2016 (Year 1) and 2016–2017 (Year 2). It also examined retention and student achievement in the year after the program was complete, 2017–2018 (Year 3), when principals could have continued to apply the lessons learned in their schools in ways that might have improved these outcomes.

#### Exhibit 1. The study design

#### Who participated?

- 100 elementary schools from eight districts in five states: 100 principals, 3,266 teachers and 23,923 students
- Districts that were not already offering intensive professional development for principals volunteered to participate
- Compared with districts nationally, study districts were:
  - Larger (73 schools versus 7 in the average district nationally)
  - More concentrated in the South (five districts in the West South Central region and three districts in the South Atlantic region)
- Compared with schools nationally, study schools were:
  - Higher poverty (75 versus 55 percent of students eligible for free or reduced-price lunch)
  - Lower achieving (41st versus 50th percentile in their state in math and English language arts)
- Compared with elementary school principals nationally, study principals had fewer years of experience as school administrators (5 versus 7 years of experience, on average) vii

#### How was the study conducted?

- Within each district, schools with similar characteristics were paired together before random assignment
- Within each pair, one school was randomly assigned to a group that participated in the study's principal professional development program for two years, and the other school was assigned to a group that did not participate
- The two groups of schools had similar student achievement, student demographic characteristics, and educator characteristics at the beginning of the study
- The study compared outcomes for the two groups of schools to measure the effects of the program

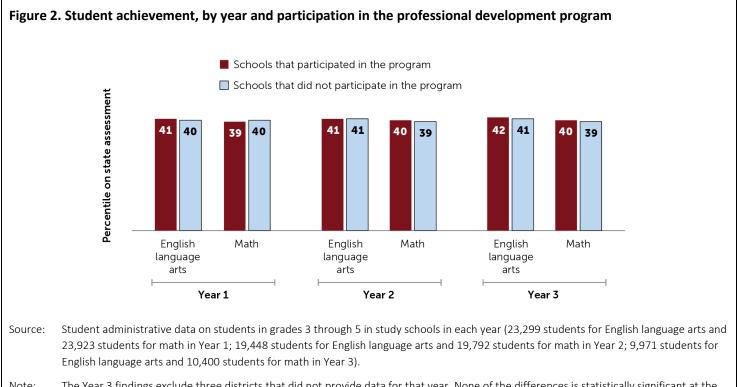
#### What data were used?

- <u>To measure implementation</u>: principal surveys, forms that documented principals' participation in trainings and the extent to which trainings covered the intended content, and logs that coaches completed after each coaching session to document the focus and activities of the session
- <u>To measure effects on principals' practices and school climate</u>: principal surveys, teacher surveys, and logs principals completed to document how they used their time during the school day
- <u>To measure effects on student achievement</u>: district records on students' test scores in grades 3 through 5 for both years of program implementation plus one additional school year
- <u>To measure effects on principal and teacher retention</u>: district records on principals' and teachers' school assignments from district evaluation systems for both years of program implementation

### THE STUDY'S PRINCIPAL PROFESSIONAL DEVELOPMENT PROGRAM DID NOT AFFECT STUDENT ACHIEVEMENT OR MOST SCHOOL OR TEACHER OUTCOMES MEASURED BY THE STUDY

The program's ultimate goal was to improve student achievement. To do so, it first aimed to improve principals' practices, which in turn could affect school and teacher outcomes, including school climate and principal and teacher retention. The study examined the programs' effects on these outcomes to learn about how well it worked in the study's districts and schools.

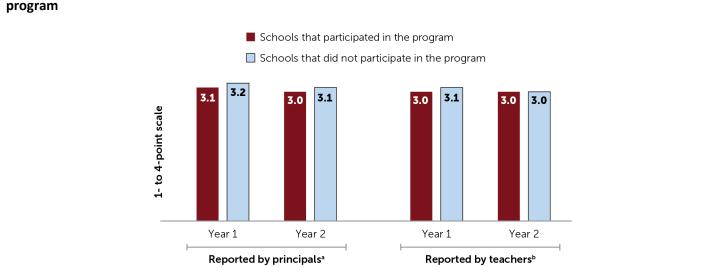
The professional development program did not affect student achievement during the two years of the program's implementation or in the following year. In all three years of the study, average English language arts and math scores were nearly identical for students whose principals participated in the program and those whose principals did not. Average scores ranged from the 39th to 42nd percentiles across years and subjects (Figure 2). The program did not affect achievement in schools with less experienced principals (Appendix C, Table C.2). For schools with different levels of initial achievement, the program had some negative effects for schools with medium levels of initial achievement in the first two years and one positive effect for schools with lower initial achievement after three years (Appendix C, Table C.3).<sup>viii</sup>



Note: The Year 3 findings exclude three districts that did not provide data for that year. None of the differences is statistically significant at the .05 level, two-tailed test.

Figure reads: At the end of Year 1, students in schools where principals participated in the program earned an average English language arts score at the 41st percentile in their state, and students in schools where principals did not participate in the program earned an average English language arts score at the 40th percentile in their state.

The professional development program generally did not affect school climate or principal and teacher retention. Principals and teachers in both groups of schools had similar perceptions of their school climate, rating it from 3.0 to 3.2, on average, on a 1- to 4- point scale where higher values reflect more positive perceptions (Figure 3). In addition, over a three-year period, the program did not improve the retention of the principals and teachers who worked in study schools before the study began (Figure 4). After one year of the program, schools that participated in the program had slightly lower teacher retention than schools that did not participate. However, there were no differences in teacher retention between these two groups of schools after two or three years. After three years, about half of the original principals and teachers remained in their schools, regardless of whether the principals participated in the program.



## Figure 3. Principal and teacher reports on school climate, by year and participation in the professional development program

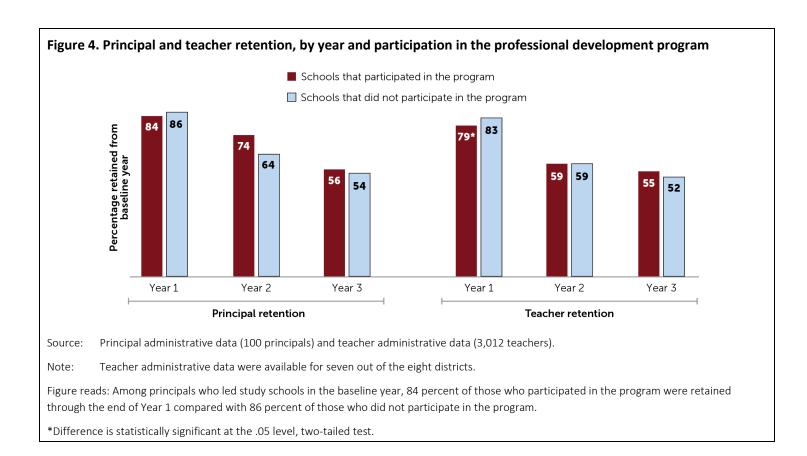
Source: Principal survey (90 principals in Year 1 and 92 in Year 2) and teacher survey (1,127 teachers in Year 1 and 1,095 in Year 2).

Note: None of the differences is statistically significant at the .05 level, two-tailed test.

Figure reads: In Year 1, principals who participated in the program gave their school climate a rating of 3.1 on a 1- to 4-point scale where higher values reflect more positive perceptions, compared with a rating of 3.2 for principals who did not participate in the program.

<sup>a</sup> School climate, as reported by principals, includes the extent to which principals reported the school having problems with student absenteeism, widespread disorder in classrooms, and conflicts between students and teachers. The scale indicates whether each issue is a problem to a (1) great extent, (2) moderate extent, (3) small extent, or (4) not at all.

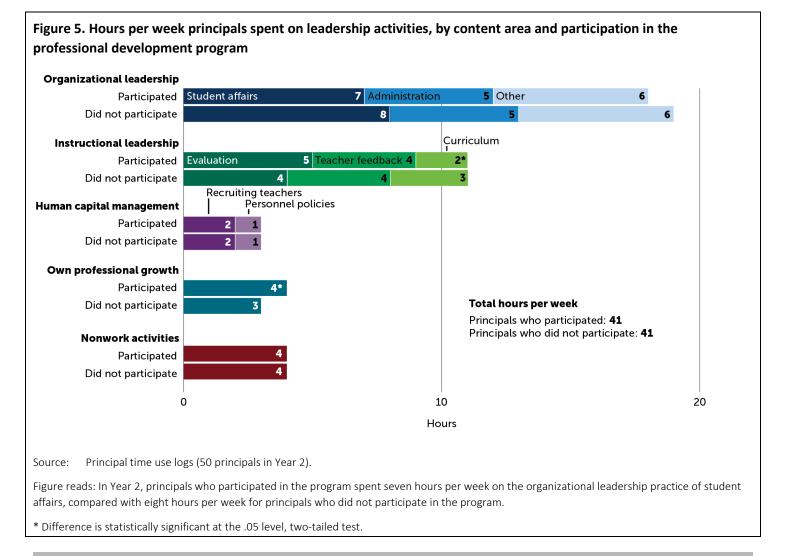
<sup>b</sup> School climate, as reported by teachers, includes the extent to which teachers reported cooperative effort among staff members in the school, the school administration being supportive and engaging, and not having problems with student misbehavior interfering with their teaching. The scale indicates whether teachers (1) strongly disagree, (2) disagree, (3) agree, or (4) strongly agree with statements about their school.



# THE PROFESSIONAL DEVELOPMENT PROGRAM HAD SOME NEGATIVE EFFECTS ON PRINCIPALS' PRACTICES

The program aimed to improve several principal practices. First, to increase the amount of instructional support that principals provided to teachers, it encouraged principals to observe instruction more often and provide teachers with more frequent feedback. To improve the quality of this instructional support, it sought to improve principals' competence in providing feedback and the usefulness of the feedback they provided to teachers. To a lesser extent, the program also aimed to help principals better communicate plans for school improvement and select professional development that best met their teachers' individual needs. The study examined the program's effects on each of these practices.

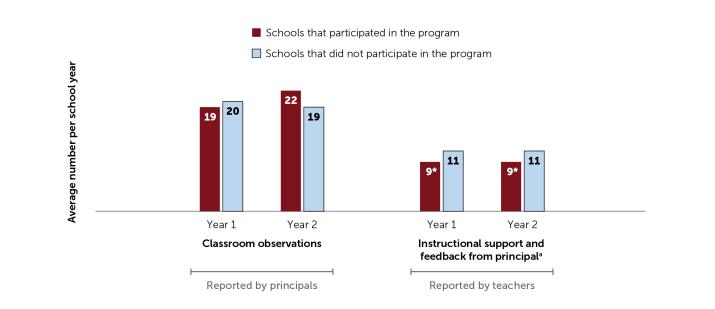
The professional development program did not affect the amount of time principals spent on instructional leadership. Both principals who participated in the program and those who did not spent similar amounts of time on most leadership practices. For example, in the second year, both groups spent fewer than 10 hours per week (25 percent of their time) evaluating instruction and providing feedback to teachers—instructional leadership practices that the program emphasized (Figure 5). Both groups spent nearly half of their time on organizational leadership responsibilities, such as student affairs (including attendance, discipline, and counseling) and administration (including operations and finance). Principals who participated in the program spent one extra hour per week on their professional growth, including time meeting with a coach or engaging in other professional development activities, and one less hour on curriculum, compared with principals who did not participate in the program.



For each of the activities examined, both groups of principals spent their time in similar ways across both years, with a few exceptions (Appendix C, Table C.6). In the first year of the study, principals in the program worked more total hours per week (41 versus 38 hours). In the second year, both groups worked the same number of hours (41) per week.

The professional development program did not affect the number of teacher observations that principals conducted and decreased the amount of instructional support and feedback teachers reported receiving from principals. Both groups of principals conducted about 20 observations in a typical classroom each year (Figure 6). These observations lasted about 30 minutes (Appendix C, Table C.7). However, teachers whose principals participated in the program said they got less frequent instructional support and feedback compared with their counterparts whose principals did not participate in the program (Figure 6). In both years, teachers whose principals participated in the program received instructional support and feedback from their principal two fewer times, on average.

## Figure 6. Frequency of principals' instructional leadership activities, by year and participation in the professional development program



Source: Principal survey (78 principals in Year 1 and 90 principals in Year 2) and teacher survey (1,133 to 1,135 teachers in Year 1 and 1,100 to 1,104 in Year 2).

Figure reads: In Year 1, principals who participated in the program conducted 19 observations per classroom per year, compared with 20 observations per classroom for principals who did not participate in the program.

\* Difference is statistically significant at the .05 level, two-tailed test.

<sup>a</sup> This category includes classroom observations, feedback on teaching, developing specific instructional practice goals, using data to determine progress and suggest specific teaching actions, and other instructional supports.

The professional development program had some negative effects on teachers' perceptions of the quality of principals' instructional support. In the two study years, both groups of principals on average rated the quality of their teacher observation skills 3.3 on a 1- to 4-point scale, where higher numbers reflect higher quality (Appendix C, Table C.8). Both groups of principals, on average, gave themselves identical ratings on their competence in providing instructional support in both years: 3.5 on a 1- to 4-point scale. Teachers in both groups generally had positive perceptions of principals' instructional support and feedback (Table 1). However, teachers whose principals participated in the program had slightly more negative perceptions of some measures of principals' support and feedback, particularly in the first year of implementation. The program did not affect teachers' perceptions of the usefulness of the feedback received from principals in either year. Furthermore, the program did not increase the amount or quality of instructional support provided by less experienced principals or principals of schools with lower initial achievement (Appendix C, Table C.9).

Table 1. Teachers' perceptions of the quality of principals' instructional support, by year and participation in the professional development program

	Year 1			Year 2		
	Mean		_	Mean		
	Participated	Did not participate	Effect of the program	Participated	Did not participate	Effect of the program
Teachers' perceptions (on 1- to 4-point sca	ale) about:					
Principals' competence in providing instructional support <sup>a</sup>	3.1	3.2	-0.1*	3.1	3.2	0.0
Usefulness of feedback received from principal <sup>b</sup>	2.8	2.9	-0.1	2.9	2.9	0.0
Usefulness of all types of instructional support from principal <sup>c</sup>	3.1	3.2	0.0	3.1	3.2	0.0
Percentages of teachers who reported:						
Interactions with principal about instruction were useful	64	67	-3	60	66	-6*
Instructional feedback between principal and someone else was consistent	73	78	-5*	76	76	0

Source: Teacher surveys (791 to 1,124 teachers in Year 1 and 780 to 1,100 teachers in Year 2).

Note: In the table, the effect of the program may not equal the difference between the means for schools that did and did not participate in the program in the table due to rounding.

\* Difference is statistically significant at the .05 level, two-tailed test.

<sup>a</sup> "Principals' competence in providing instructional support" includes whether teachers feel that principals know what effective teaching looks like; work directly with teachers to improve instruction; communicate clear standards for student learning and expectations for teacher performance; and encourage teachers to use what they learn from professional development, resources on teaching, and each other to improve instruction. The scale indicates whether teachers (1) strongly disagree, (2) disagree, (3) agree, or (4) strongly agree with statements about their school.

<sup>b</sup> "Usefulness of feedback received from principal" includes whether teachers feel that the feedback addressed pressing issues in their classroom, provided them with actionable steps for improvement, and helped them identify areas of instructional practice in which they need improvement. The scale indicates whether teachers felt the feedback met certain criteria (1) not at all, (2) to a small extent, (3) to a moderate extent, or (4) to a great extent.

<sup>c</sup> "Usefulness of all types of instructional support from principal" includes whether teachers feel that the following types of instructional support were useful: classroom observations, feedback on teaching, developing specific instructional practice goals, using data to determine progress and suggest specific teaching actions, and other instructional supports. The scale indicates whether teachers felt the instructional support met certain criteria (1) not at all, (2) to a small extent, (3) to a moderate extent, or (4) to a great extent.

The professional development program had few effects on the principal practices that were not its primary focus. Principals' human capital management practices, measured by the frequency, intensity, and content of professional development that they arranged for teachers, did not change. The program also had few effects on principals' organizational leadership practices, measured by principals' and teachers' perceptions of the frequency and coherence of plans for school improvement (Appendix C, Table C.10).

# THE PROGRAM INCREASED THE AMOUNT OF PROFESSIONAL DEVELOPMENT THAT PRINCIPALS RECEIVED

Given that the professional development program did not affect some principal practices and negatively affected others, it is useful to examine the program's implementation, how it added to the support principals were already receiving, and the content that it emphasized.

**Principals received the planned amount of professional development.** Over two years, principals received all 188 hours planned for the program. In the first year, they received 134 of the 138 hours planned (Figure 7). In the second year, they received more than planned—54 hours, rather than 50 hours. Nearly all principals—84 percent—stayed in their schools and participated in the program for the full two years. In 8 schools (out of a total of 50), the original principal left, and the program was offered to the new principal. (One school did not participate in the program in the second year.)

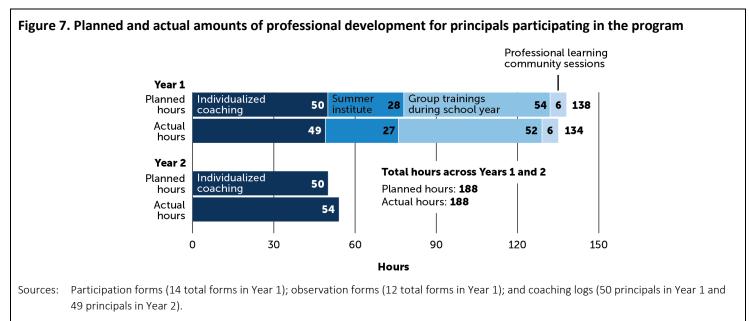
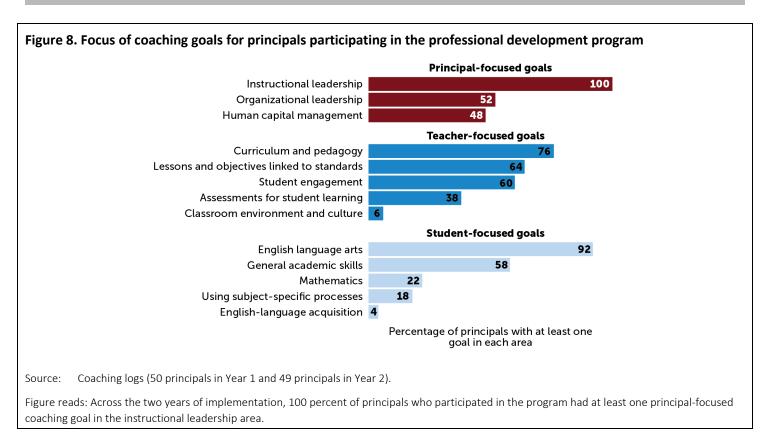


Figure reads: In Year 1, the study planned for principals to receive 50 hours of individualized coaching, 28 hours of professional development from the summer institute, 54 hours from group trainings during the school year, and 6 hours from the professional learning community sessions—a total of 138 hours across the four components.

**Consistent with its intended focus, the professional development program emphasized instructional leadership.** Across all four components of the program, 70 percent of the professional development time focused on instructional leadership. Human capital management and organizational leadership received much less attention (16 and 14 percent, respectively) (Appendix A, Table A.2). In addition, principals worked with their coaches to set goals for their time together—all principals set at least one goal in the area of instructional leadership, compared with only about half who set at least one goal in the area of organizational leadership (Figure 8).



The program increased the number of total hours of professional development that principals received. The professional development program was intended to add to, rather than replace, any professional development that the district already provided to principals. In the first year, those participating in the program got a total of 100 hours more professional development than other principals (220 versus 120 hours, Figure 9). The extra training hours included more hours of group training, one-on-one development, and other development, consistent with the program's inclusion of group training, coaching, and professional learning communities. In the second year, principals in the program had more hours of one-on-one development (58 versus 19 hours) than other principals. This finding is consistent with the fact that the program provided only individualized coaching, and not group training, in the second year.

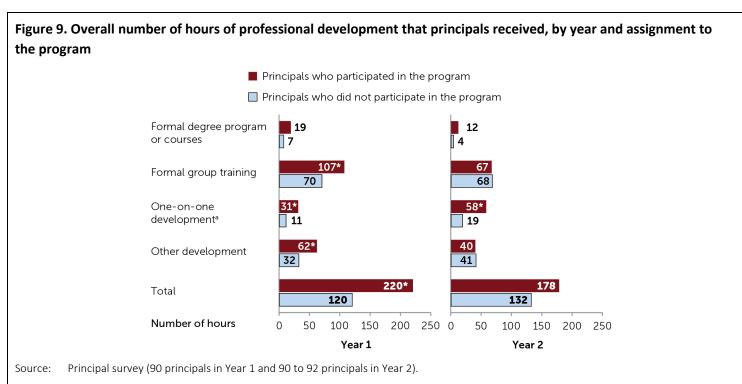


Figure reads: In Year 1, principals who participated in the program received 19 hours of professional development from a formal degree program or course, compared with 7 hours for principals who did not participate in the program.

\*Difference is statistically significant at the .05 level, two-tailed test.

<sup>a</sup>This category includes mentoring and coaching.

The program increased the percentage of principals who received professional development related to instructional

**leadership.** Consistent with the program's emphasis on instructional leadership, more than 90 percent of principals who participated in the program reported receiving professional development related to (1) observing classroom instruction and (2) providing feedback to teachers on their instruction, compared with about 70 percent of principals who did not participate in the program (Appendix C, Table C.12).

#### DIRECTIONS FOR FUTURE RESEARCH ON PRINCIPAL PROFESSIONAL DEVELOPMENT

The study's principal professional development program was based on the theory that improving principals' leadership practices should improve school, teacher, and student outcomes. Although implemented as intended, the program did not improve these outcomes, on average. However, impacts were positive for some schools and negative for others (Appendix C, Figures C.1–C.6). Analyses exploring these differences may provide information about this theory for improving outcomes. They could also suggest potential avenues for improving principal professional development that future studies could explore.

First, the study provides suggestive evidence that professional development focused on principals' instructional leadership could help improve student achievement. The program's effects on certain instructional leadership practices were positively associated with its effects on student achievement (Appendix C, Tables C.13–C.15). These practices included principals' competence in providing instructional support, the frequency of principals' instructional feedback and support, and the usefulness of teachers' interactions with principals about instruction. However, these findings are only suggestive, because principals who experienced larger and smaller effects from the program may differ on other characteristics that could be related to student achievement in their school, such as prior leadership ability.

Second, the study highlights various challenges to *effectively* changing principals' leadership practices. Principals in the study received the intended amount of group trainings and individualized coaching that included opportunities to practice and discuss the new skills promoted. However, the program did not improve principals' practices, on average. Spending higher percentages of coaching time on activities that might be expected to improve principals' practices— such as hands-on activities, developing plans to address principals' specific problems, or instructional leadership activities—was not related to the program's effects on leadership practices (Appendix C, Tables C.16 and C.17). These findings are also only suggestive, because principals who spent more and less time on each of these activities may differ in terms of their schools' needs and other characteristics.

The study highlights issues for future studies to explore. Although the study did not directly observe the quality of principals' instructional support or teachers' instruction, the program did not improve teachers' perceptions of the usefulness of principals' feedback. Future studies could investigate the effectiveness of different professional development activities for improving principals' feedback to teachers. In addition, despite a focus on classroom observations and teacher feedback, the program did not increase the number of observations that principals conducted. In fact, principals spent less than a quarter of their work week evaluating instruction and providing feedback to teachers. Future research could explore how principal professional development programs focused on instructional leadership could help principals make more time for these instructional leadership activities.

#### **ENDNOTES**

<sup>i</sup> Hallinger and Heck 1998; Harris et al. 2010; Knapp et al. 2006; Leithwood et al. 2004

<sup>ii</sup> Jacob et al. 2014

<sup>III</sup> Nunnery et al. 2010, 2011, 2016

<sup>iv</sup> Principals could either use CEL's 5 Dimensions of Teaching and Learning (5D)<sup>™</sup> rubric or the one used by their district, such as the Framework for Teaching (Danielson 2009).

<sup>v</sup> Clark et al. 1980; Grissom et al. 2013

<sup>vi</sup> The study team intended to use ratings of teachers from their districts' evaluation systems to examine teacher effectiveness. However, because these data were unavailable for nearly half of the teachers in the study schools, the study did not analyze these data.

vii Taie and Goldring 2017

<sup>viii</sup> Throughout this report, effects are designated as statistically significant if the *p*-value is less than 0.05. Appendix D presents an alternative approach to interpreting study findings that does not rely on *p*-values or statistical significance. This alternative approach avoids the common misinterpretation of statistical significance (*p*-value < 0.05) as meaning that there is at least a 95 percent chance that an intervention had an effect (Greenland et al. 2016).

#### REFERENCES

- Clark, David L., Linda S. Lotto, and Martha M. McCarthy. "Factors Associated with Success in Urban Elementary Schools." *Phi Delta Kappan*, vol. 61, no. 7, 1980, pp. 467-470.
- Danielson, Charlotte. *Implementing the framework for teaching in enhancing professional practice*. Alexandria, VA: ASCD, 2009.
- Greenland, S., S.J. Senn, K.J. Rothman, J.B. Carlin, C. Poole, S.N. Goodman, and D.G. Altman. "Statistical Tests, P Values, Confidence Intervals, and Power: A Guide to Misinterpretations." *European Journal of Epidemiology*, vol. 31, no. 4, 2016, pp. 337–350.
- Grissom, Jason A., Susanna Loeb, and Benjamin Master. "Effective Instructional Time Use for School Leaders: Longitudinal Evidence from Observations of Principals." *Educational Researcher*, vol. 42, no. 8, 2013, pp. 433–444.
- Hallinger, Philip, and Ronald H. Heck. "Exploring the Principal's Contribution to School Effectiveness: 1980–1995." *School Effectiveness and School Improvement*, vol. 9, no. 2, 1998, pp. 157–191.
- Harris, Douglas N., Stacey A. Rutledge, William K. Ingle, and Cynthia C. Thompson. "Mix and Match: What Principals Really Look for When Hiring Teachers." *Education Finance and Policy*, vol. 5, no. 2, 2010, pp. 228–246.
- Jacob, R., R. Goddard, M. Kim, R. Miller, and Y. Goddard. "Exploring the Causal Impact of the McREL Balanced Leadership Program on Leadership, Principal Efficacy, Instructional Climate, Educator Turnover, and Student Achievement." *Educational Evaluation and Policy Analysis*, vol. 52, 2014, pp. 187–220.
- Knapp, Michael S., Michael A. Copland, Margaret L. Plecki, and Bradley S. Portin. "Leading, Learning, and Leadership Support." Seattle, WA: Wallace Foundation, 2006.
- Leithwood, Kenneth, Karen Seashore Louis, Stephen Anderson, and Kyla Wahlstrom. "How Leadership Influences Student Learning." New York: Wallace Foundation, 2004.
- Nunnery, J.A., S. M. Ross, and J. M. Reilly. "An Evaluation of the National Institute for School Leadership: Executive Development Program in Milwaukee Public Schools." Norfolk, VA: Old Dominion University, Center for Educational Partnerships, April 2016.
- Nunnery, J.A., S.M. Ross, and C.J. Yen. "The Effect of the National Institute for School Leadership's Executive Development Program on School Performance Trends in Pennsylvania." Norfolk, VA: Old Dominion University, Center for Educational Partnerships, 2010.
- Nunnery, J.A., S.M. Ross, S. Chappell, S. Pribesh, and E. Hoag-Carhart. "The Impact of the National Institute for School Leadership's Executive Development Program on School Performance in Massachusetts: Cohort 2 Results." Norfolk, VA: Old Dominion University, Center for Educational Partnerships, July 2011.
- Taie, Soheyla, and Rebecca Goldring. "Characteristics of Public Elementary and Secondary School Principals in the United States: Results from the 2015–16 National Teacher and Principal Survey First Look (NCES 2017-070)." Washington, DC: U.S. Department of Education, National Center for Education Statistics, 2017. Retrieved November 29, 2018 from <u>https://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2017070</u>.

#### ACKNOWLEDGEMENTS

This study would not have been possible without the contributions of many people. We are grateful for the cooperation of the many coaches, principals, teachers, district leaders, and staff who helped implement the study's principal professional development program, assisted with data collection, and provided important information that shaped the study. A team of leaders and expert consultants from the Center for Educational Leadership at the University of Washington was primarily responsible for developing the study's professional development program and providing the professional development and technical assistance for the study. They included Steve Fink, June Rimmer, Lisa Rooney, and Donna Anderson-Davis. A team of staff from the American Institutes for Research supported implementation of the study's professional development program. They included Ben Kalina, Tammie Knights, Nicol Christie, Marlene Darwin, Debbie Davidson-Gibbs, Mariann Lemke, Elaine Liebesman, and Roshni Menon.

Several people helped collect and analyze data for the study. Kristina Rall led the administration of principal and teacher surveys, with support from Stacie Feldman, Jaimie Grazi, and Maya Reid. A large team of staff from Mathematica, American Institutes for Research, and Social Policy Research Associates helped recruit schools into the study. They included Tim Silva, Nancy Duda, Chris Jones, Jacob Hartog, Linda Mendenko, Chandra Larsen, Sukey Leshnick, Heather Lewis-Charp, Brandon Nicholson, and Castle Sinicrope. A team of staff from Mathematica and Social Policy Research Associates helped collect and analyze administrative and implementation data for the study. They included Seth Brown, Megan Christianson, Mika Clark, Mayte Cruz, Amy Defnet, Morgan Levine, Matt Jacobus, Jessie Mazeika, Eduardo Ortiz, Cassie Pickens-Jewell, Dory Seidel, Charles Tilley, Tara Wildszewski, and Clare Wolfendale.

Many people contributed to the study design, interpretation of the study's findings, and production of this report. The study received useful advice from our technical working group, which included Eric Camburn, Roger Goddard, Jason Grissom, Jason Huff, Carolyn Kelley, Jim Kemple, Susanna Loeb, John Nunnery, and Jeff Smith. Matt Clifford at the American Institutes for Research and Ellen Goldring at Vanderbilt University helped shape and guide the evaluation and provided expert contributions and advice at various stages. Mark Dynarski at Pemberton Research provided important input on the study design, analysis plans, and report. Allen Schirm provided valuable input on the statistical interpretation of the study findings. Maura Butler edited the report, Sheena Flowers and Brigitte Tran created graphics, and Shantal James prepared the report for publication.

#### DISCLOSURE OF POTENTIAL CONFLICTS OF INTEREST

The research team for this evaluation included staff from Mathematica and its subcontractors and consultants, American Institutes for Research, Pemberton Research, Social Policy Research Associates, Ellen Goldring of Vanderbilt University, and Allen Schirm. None of the research team members has financial interests that could be affected by findings from this evaluation. None of the 9 members of the two technical working groups, convened by the research team over the course of the study to provide advice and guidance, has financial interests that could be affected by findings from the evaluation.

#### U.S. Department of Education

Betsy DeVos Secretary

#### Institute of Education Sciences

Mark Schneider Director

#### National Center for Education Evaluation and Regional Assistance

Matthew Soldner Commissioner

#### October 2019

This report was prepared for the Institute of Education Sciences under Contract ED-IES-14-C0028. The project officer is Elizabeth Warner in the National Center for Education Evaluation and Regional Assistance.

IES evaluation reports present objective information on the conditions of implementation and impacts of the programs being evaluated. IES evaluation reports do not include conclusions or recommendations or views with regard to actions policymakers or practitioners should take in light of the findings in the report.

This report is in the public domain. Authorization to reproduce it in whole or in part is granted. While permission to reprint this publication is not necessary, the citation should read:

Herrmann, M., Clark, M., James-Burdumy, S., Tuttle, C., Kautz, T., Knechtel, V., Dotter, D., Wulsin, C. S., and Deke, J. (2019). *The Effects of a Principal Professional Development Program Focused on Instructional Leadership* (NCEE 2020-0002). Washington, DC: National Center for Education Evaluation and Regional Assistance, Institute of Education Sciences, U.S. Department of Education.

This report is available on the Institute of Education Sciences website at http://ies.ed.gov/ncee.

Upon request, this report is available in alternate formats, such as Braille, large print, audiotape, or computer diskette. For more information, please contact the Department's Alternate Format Center at 202-260-9895 or 202-205-8113.

