

TABLE 3 | Summary of Skills Principals Learned On-the-Job

SKILLS LEARNED	DESCRIPTION OF ROLES AND RESPONSIBILITIES
Supporting teachers instructionally (i.e., via literacy lead, instructional coach, team lead, assistant principalship)	<ul style="list-style-type: none"> • Leading teachers through instructional improvement cycles • Using assessments and protocols to guide instructional conversations • Giving constructive feedback on other teachers’ instruction • Supporting teachers’ reflective practice • Collaboratively working on aligning curriculum and assessments
Examining and using data to make decisions (i.e., via data strategist, assistant principalship)	<ul style="list-style-type: none"> • Using data to identify areas for school improvement • Using technology to help support data use for planning
Leading and supporting school teams (i.e., via team lead)	<ul style="list-style-type: none"> • Facilitating and running meetings, including creating effective meeting agendas, taking notes, and disseminating information • Examining and using data to identify needs and make collective decisions
Thinking organizationally and seeing the “big picture” (i.e., via coaching, scheduler, programmer, and assistant principalship)	<ul style="list-style-type: none"> • Working through change or turnaround processes • Creating and overseeing school class and testing schedules
Managing personnel (i.e., via dean, manager, assistant principalship)	<ul style="list-style-type: none"> • Motivating individuals and teams • Holding people accountable • Layering in support structures
Improving the culture and climate of the school (i.e., via dean, assistant principalship)	<ul style="list-style-type: none"> • Planning assemblies • Overseeing student discipline and supporting discipline/security teams • Supporting and overseeing behavioral health team and school-wide social emotional learning initiatives • Engaging with families to help support the school

Principals described learning a wide range of skills during their time as assistant principals, including instructional skills (via coaching teachers, using formative assessments to guide instruction, using REACH as a learning tool), and organizational management skills (via scheduling, day-to-day operations), and organizational leadership and people skills (via gaining trust with teachers through classroom observations, leading family and community engagement efforts). For example, principals said:

“I would say being an assistant principal was the most beneficial [experience] in terms of understanding school dynamics and really having an understanding of what the work looks like, the challenges that occur on a day-to-day basis.”

“I was able to really own work... I don’t know what it’s like to be in the principal’s chair, but I know what it’s like to manage many projects at once and have a long-term vision and plan for each, with training and development and mindset issues that I’ve got to navigate through.”

“I was put in a position where I was leading a lot of things that I normally would be co-leading or even getting coached to lead...And so my AP experience was everything. I essentially, by six months in, was probably doing most of the principal role.”

Fifteen principals said they learned different types of organizational leadership and management skills by leading school-based teams (i.e., the Instructional Leadership Team (ILT), or grade-level or subject-area teams). Principals remarked upon the importance of their experiences being on teams where responsibilities were distributed and shared and where they were able to learn how to lead teams of adults. For example, one principal said:

“One of the roles that I took on was team lead for the middle school team. I was given the autonomy to work with that team, to meet with that team. (Facilitating) our grade-band meetings was one of the things that I was responsible for. Any decisions that we decided upon, I was the one who facilitated the conversation, who brought the issues to the team, and then we would decide on what strategies or what resources we would implement...That was pretty useful leading a team of adults, and also being able to coach and support my colleagues.”

By serving in these types of leadership positions, principals learned how to facilitate effective meetings by developing agendas, taking meeting minutes, and creating action plans. They also learned how to explore data to better understand how students are doing, and collectively strategize and make decisions. For example, principals explained:

[Via leading an attendance team] “I was the one doing the agendas, coming up with taking notes, making sure that information was disseminated, following up, that kind of stuff.”

“And so I was the team leader for [my] grade. And our main focus was a data driven instruction cycle... using, you know, different types of assessments and protocols to have our meetings be more structured, instead of just kind of teacher talk.”

Principals who worked in non-education related roles also said these experiences taught them how to work in teams and manage groups of adults. Roles included managing multiple restaurant franchise locations, or holding other positions in the restaurant industry, working in state politics, serving in church leadership, and being a

fitness trainer. Principals described the types of things they learned in these roles:

“I’ve worked every job at a restaurant, like busboy, waiter, bartending, washing dishes, just being able to think on the fly, just like not to be rattled.”

“[Through managing restaurants] I had to coach people on how to do their jobs...motivate them to do their job and do it well took a fair amount of strategy and reflection and planning... And really learning how to hold people accountable.”

Five principals also talked about previous education and non-education related roles where they needed to think about the “big picture” and how organizational systems operate, which proved valuable once in the principalship. These principals were in positions that required them to take a “macro” level perspective, including programmers, schedulers (people who create the school and/or testing schedules), government workers, and data specialists. For instance, principals stated:

“...if you’ve worked in a corporate job, and are used to a corporate culture, I think it’s a tremendous...advantage because you have some understanding about organizational systems, organizational management.”

“[My position as a scheduler/programmer] allowed me to look at systems across the school that impact not just one classroom, but like how all these different departments and grade levels intersect. And what does it mean to plan with students in mind?”

“I learned a fair amount about how those systems worked and how capital accumulates and how it’s leveraged to get done within obviously a very political system when you’re working in government.” [former government worker]

Out of the 20 principals we interviewed, six had formalized roles where they were tasked with helping to support other teachers instructionally in teacher teams. These roles included literacy lead, instructional coach, or subject area/team lead. Principals who had formalized roles talked about how these experiences provided them with opportunities to work directly with teachers on helping them improve their instruction:

“That particular position really inspired my love for working with teachers and really being a part of their change process in improving practice in the classroom.” [Literacy Lead]

“So it was a great experience giving people feedback, allowing people to come in and see my practice, helping them to plan, helping them to reflect on their own practice to improve.” [Instructional Coach]

“I was basically going around and helping teachers to better gauge the curriculum to present to students, giving them some strategies and some levers on how to really help to engage students with math and science.” [Subject area team lead]

By having these instructional leadership positions, prospective school leaders learned the importance of adult learning, of connecting curriculum to instructional strategies, and of devising and using more instructionally sensitive assessments. Only three principals, however, talked about their own teaching experience and how it shaped their instructional leadership expertise. They talked about the importance of having strong pedagogical skills to be able to model good practice for their teachers and provide constructive feedback.

FORMAL PREPARATORY EXPERIENCES

Formal principal preparation programs provided important avenues for principals to learn essential organization, people, and instruction skills, especially the residency or internship experience. Formal leadership preparation programs included coursework, residencies or internships, and mentoring and coaching provided as part of the program. Principals also discussed the importance of developing peer networks via formal preparation program experiences. For example, principals discussed the value of having a cohort of peers who “speak the same language” and are there for support when challenges arise. During interviews, we asked each principal to describe their preparation program experiences, what they learned, and which aspects of the program helped prepare them most and least for the principal role. Ten out of the 20 principals in the study were part of the Chicago Leadership Collaborative and

had a residency experience where they were mentored by a resident principal. Five of those principals talked about their residencies as being the most helpful in preparing them for the principalship. In fact, some said it was the best “approximator” for the role. Principals described their residency experiences in the following ways:

“Doing the residency...I had come straight from the classroom, and so really the experience of watching a principal reflecting on their moves and their strategy at the school level, but also having to do the work. Being given tasks and roles in the school as a leader was really the most dynamic.”

“Seeing every aspect of my principal’s work and my assistant principal, and every emotion they went through that year, every success, every failure, every frustration, every blowup, every Local School Council (LSC) meeting, all of that I got to experience... And I left that experience thinking, this is what I missed out on in the certificate program.”

“The residency model for a principal is just invaluable. You really are in the seats. And I’m sure it depends on the site and the mentor and so on, but it really prepares you for what you’re going to experience as closely as it can be. You still are not fully prepared, you know, to do the work by no means. I don’t think anyone is. But I think that resembles the experience the best it possibly can.”

We heard a range of opinions and responses about the different principal preparation programs. In general, principals expressed gratitude that they got to practice leading in school environments during their residency or internship and got to learn from practicing school principals. Principals were generally more critical of some classes they had to take during their programs. For example, one principal remarked, “Half the classes in the preparation program were unhelpful.” Principals mentioned specific classes that were both more and less helpful than others. **Table 4** provides an overview of the different components of formal preparation programs that principals said were helpful or unhelpful in preparing them for the role.

TABLE 4 | Principal Preparation Program Components That Did or Did Not Help Prepare for the Role

PROGRAM COMPONENTS	HELPED PREPARE FOR ROLE	DID NOT HELP PREPARE FOR ROLE
Residency or Internship	<ul style="list-style-type: none"> • Building instructional leadership capacity • Gaining hands-on experiences • An involved and consistent mentor principal with urban principal experience 	<ul style="list-style-type: none"> • Mentors who were unengaged or not actively supporting and developing candidates
Classes	<ul style="list-style-type: none"> • Applicable topics, especially instructional leadership and children’s development • Taught by current or former urban school leaders • Project-based hands-on classes with simulated exercises 	<ul style="list-style-type: none"> • Taught by faculty without any urban experience • Theory-based classes without real-world application • Inauthentic or irrelevant assignments
Other Program Features	<ul style="list-style-type: none"> • Tools and resources (e.g., a corrective instruction tool to help teachers improve their instruction, observation tools like the Charlotte Danielson Framework) • Support on how to prepare to meet CPS eligibility and content exams • Help finding a position post-graduation • Continued mentoring or coaching post-graduation • Cohort models and building peer networks • Flexible program hours 	<ul style="list-style-type: none"> • Not exploring how to lead an underperforming school

Gaps in Leadership Development

What skills, experiences, and supports did principals wish they had prior to taking the position?

Although principals talked about the critical learning experiences leading up to their principalship, several said they felt underprepared in different areas when they stepped into the role. Only five principals said they felt fully prepared to take on the role, while eight said that they felt underprepared in specific areas. Another five said they did not feel prepared to become a principal after they completed their preparation program and sought other types of leadership development opportunities and roles before they applied to be a principal. Two principals, however, said they felt like nothing could have adequately prepared them. As one principal commented, “I don’t think anything prepares you for this role until you’re doing it.”

Other principals emphasized the complexity of the role and all the various skillsets needed to be successful, making it difficult to feel fully prepared in all areas. For example:

“People recognize that we’re in this weird space of being an executive but also being the logistics-in-operations expert. And then don’t forget we’re the instructional leader, and we’re the person who has to deal with the discipline of everyone in our buildings and interacting with parents. All of those different layers and levers, it’s a job that’s like none other.”

“There’s so many competencies that you need. You know, you have climate and culture. You have school operations. You have instruction, right? And then you have community engagement. And those just take so many different skill sets.”

Given the complexity of the role most principals said they could have used more support or training in different areas. We asked principals, “Knowing what you know now, what supports/experiences do you wish you would have had in your journey to becoming a principal?” Principals wished they had more opportunities to develop specific skillsets, along with more mentoring and support. Because principals’ backgrounds and experiences varied

widely, they did not all wish for the same things. **Figure C** summarizes the types of skills principals said they wished they were able to develop or learn before they became principals.

Principals wished for a wide range of skill building opportunities and experiences. They included more general leadership learning opportunities so they could develop their skills, more support around how to find principal positions, as well as more opportunities to learn about the CPS central office system and how to navigate it. For example, principals mentioned specific tasks they struggled with during their first year as principal, and therefore wished they had better pre-service training, mentoring, or coaching to help them with these tasks. One principal struggled with articulating a school vision the first year, saying that prospective school leaders could use “more focus on the vision and the purpose.” Another mentioned wanting to be mentored on how to run effective meetings, saying:

“And so, I wish there was more of a mentality of my colleagues of, like, anybody in your building can be a principal someday, and look at them that way and pull them behind the curtain sometimes and say, so let’s talk about this meeting you’re about to run.”

Three other principals wanted more support with budgeting before becoming a principal. One principal said,

“Budgeting is one area that I would have enjoyed having more experience with because even as an AP, my principal did all the budgeting, and so I did not have that experience coming into the principalship.”

Two principals talked about wishing they had experience working with outside vendors and community organizations prior to becoming a principal. One explained it this way:

“Navigating community partners is another area that, just those outside vendors, or outside organizations that you’re with. Like not really knowing because we have close to 15 at [school name]. Of course, in order to ensure their efficiency, it requires meetings. It’s like those things can sometimes pull you away from

FIGURE C | Skills Principals Wished They Had Developed Prior to Taking on the Role

PEOPLE SKILLS	ORGANIZATIONAL LEADERSHIP & MANAGEMENT SKILLS	INSTRUCTIONAL LEADERSHIP SKILLS	NAVIGATING THE SYSTEM
<ul style="list-style-type: none"> • Building relationships and trust with staff, parents, and community members • Having difficult conversations with teachers and parents • Building relationships and working with the teachers’s union 	<ul style="list-style-type: none"> • Improving school culture and climate • Creating buy-in for the school’s vision • Creating strategic plans and tracking milestones • Creating and managing a school budget • Fundraising • Aligning teachers’ schedules so they can collaborate • Planning and running effective meetings • Analyzing data 	<ul style="list-style-type: none"> • Evaluating teachers and providing constructive feedback • Supporting teacher collaboration and professional learning communities (PLCs) for instructional improvement 	<ul style="list-style-type: none"> • Figuring out CPS central office systems, including who to call when these are human resource issues, ethics violations, or budgeting questions

being in the classrooms and things of that nature. It’s like just strategically planning those meetings and/or strategically planning how they will support your school would be helpful.”

Six principals specifically wished for more mentoring for prospective school leaders in general to help them learn how to avoid potential obstacles and pitfalls they may encounter in the role and ways to avoid making mistakes. Another said it would be helpful to have a mentor show them how to best communicate and “sell” a message to the school community. In other words, principals in our study thought it would be valuable to have a mentor take them “behind the curtain” to show them the ins and outs of what it is like being a principal.

Principals also noted that navigating the principal role in CPS can be challenging and sometimes politicized, and that networking and rapport building are key functions of the role that are often not discussed. Another principal thought it would be helpful to have more training on how to navigate the CPS management and data reporting systems, saying:

“I definitely think that CPS should just have trainings for APs and principals on how to work all of the components of all the systems that you need to know how to use and how to navigate. Something as simple as putting an incident report inside of the [management/data system]. It’s just assumed that you know how to do it, and you don’t, you know?”

Novice principals will not have learned everything they need to know about the job, nor will they have gained every skill they need before they assume the role. New principals still need access to a range of leadership learning opportunities and ongoing professional development. To help support early career principal learning and development, interviewees said new principals could benefit from greater succession planning and strengthening of the early career mentoring program. One principal, for example, introduced the idea of a multi-session leadership succession or transitional period to meet with the outgoing principal and leadership staff to learn more about the schools’ budget, staffing, and schedule as they begin their tenure. This principal explained:

“Well, I definitely think more than a three-hour transitional meeting would be great...maybe, you know, a good, three weeks would be great of being able to look at the budget, look at staffing...helping to kind of navigate things...I think that would be beneficial, especially for someone new to the work, not knowing where to really look to find information.”

Other principals said strengthening pre-service and first year principal mentoring programs and supports would be beneficial. As one principal succinctly put it,

“I definitely think the mentoring program could be strengthened a little bit. Being a principal can be a very lonely job.” Another principal said it would be beneficial to have “a strong mentor or coach, and really it not being so formal.” In **Table 5**, we present findings from the 2019-20 Principal Engagement Survey that asked principals to report on the types of skills new principals tend to struggle with during their first years on the job. These findings align well with the types of skills and supports principals in our study said they wished they had on the road to becoming a principal.

What Do New Principals Tend to Struggle With?

The “*wished-for*” supports described in this section of the report align with what a broader pool of CPS principals identified as areas of struggle for new principals (Table 5). On the 2019-20 Principal Engagement Survey, CPS principals highlighted the importance of developing essential management skills for new principals. Three-quarters of respondents (76%) said that new principals tended to struggle with “*managing and prioritizing their own*” time, while about half (52%) agreed that new principals often had a difficult time “*allocating resources and managing the school budget*”. Survey respondents also indicated that new principals might need help developing essential soft skills. More than half (52%) of respondents said that new principals often struggled with “*confronting low expectations and conducting difficult conversations with teachers*,” while 38% said that new principals might not excel in “*engaging in courageous conversations about diversity*.”

TABLE 5 | Aspects of the Principal Role New Principals Tend to Struggle With

WHAT ASPECTS OF THE PRINCIPAL ROLE DO NEW PRINCIPALS TEND TO STRUGGLE WITH?	PERCENT OF RESPONDENTS
Managing and prioritizing their own time	76%
Confronting low expectations and conducting difficult conversations with teachers	59%
Allocating resources and managing the school budget	52%
Engaging in courageous conversations about diversity	38%
Building relationships with key community leaders	34%
Reflecting on their personal leadership and improvement	29%
Engaging families	28%
Developing a Continuous Improvement Work Plan and maintaining a focus on results	28%
Observing and evaluating staff	27%
Developing a code of conduct and managing student and adult behavior expectations	27%
Using data to assess student achievement, school performance and to inform decision making	25%
Creating a culture that supports social emotional learning	25%
Developing and leading instructional teams	24%
Hiring and retaining staff	20%
Implementing professional learning	18%
Implementing a curricular scope and sequence	16%
Reviewing instructional practices	16%
Ensuring the school learning environment is safe, clean and orderly	9%
Other	7%

Note: This data is pulled from the 2020 Principal Engagement Survey from the Chicago Public Education Fund, which was administered to all CPS principals (including charter school principals) and had a 60% response rate. Principals were asked to choose all responses to the question that were applicable, and 384 principals responded to this question.

Implications

The answers to our three research questions, described throughout this report, raise many important questions regarding the identification of potential principals, their preparation and selection, and the on-going supports they may find useful throughout their careers. Here, rather than summarizing our research findings, we identify what we think are the most important questions to consider as we strive to improve the process. Some of our interview subjects had relatively smooth and linear trajectories – classroom teacher, grade or subject level leader, assistant principal, then principal. Yet others had non-linear pathways – jobs outside of education, non-traditional preparation programs, and relatively brief experiences as APs. Successful principals took either route.

Given the complexity and multidimensionality of the job, how is it possible for aspiring principals to learn all that they need to know to succeed? It seems unlikely that a single program can teach such a range of skills and behaviors that good principals need to succeed. Therefore, a “one-size-fits all” approach would be insufficient. Instead, our findings suggest a more tailored approach to supporting prospective school leader development. As noted in the *Efforts to Strengthen the School Leadership Pipeline* section above, these proposed ideas could be incorporated within the multiple efforts that are already underway to support aspiring and practicing CPS principals.

- The system might create or adopt a competency framework, utilizing The Interstate School Leaders Licensure Consortium (ISSLC) standards for example, to help identify the critical skillsets and behaviors for prospective principals. While preparation programs use these standards to map to their program requirements, it could also be helpful for hiring decision makers, community partners, and central office staff in thinking about the types of experiences and skillsets prospective leaders may have gained on-the-job. A broader framework, for example, might also include rubrics for judging “readiness” to take on the principalship in particular areas, then additional categories such as “developing,” “proficient,” and “exemplary.” This

framework could also provide the opportunity to weave together the district’s emphasis on cultural competencies and culturally relevant, equity focused leadership.

- Could the school district create a “portfolio” approach to principal preparation, development, certification, and eligibility? Rather than relying solely on courses taken and passed, exams, and eligibility essays and interviews, could other types of evidence demonstrate that candidates have acquired and practiced needed skills and behaviors?
- Could leadership development opportunities be more tailored to fit individual leadership development needs – perhaps creating a series of modules or trainings that prospective principals could take before they become a principal – for example trainings on school budgeting and navigating the CPS system?
- Could some leadership and management skills be recognized by a “badge” system? For example, if a teacher demonstrated strong instructional skills in the classroom or as an instructional coach, perhaps that accomplishment could be recognized with a badge that carries weight toward principal certification.

Soft skills may be difficult to define, and the measurement of soft skills remains controversial. Yet this and other research demonstrate consistently their importance for both young people and adults. The principals in this study were very vocal about the need for both inter- and intrapersonal skills.

- Guided by available resources, the system could use a consensus process to describe the soft skills needed by principals and include them in the competencies framework described above. The process should include multiple stakeholders including principals, teachers, system leadership as well as educational and psychological researchers.
- A measurement system will be needed. It could rely on multiple sources of information, including self-evaluations, peer evaluations, and other techniques, including surveys already available.

- The district could simultaneously pilot alternative frameworks and measures using a developmental evaluation approach to determine the most useful and easy-to-implement approaches.

The assistant principalship could become a more explicit training ground for new principals.

- APs who aspire to the principalship should be able to experience all the components of the principal's job and not be assigned a single set of duties. Principals could share leadership responsibilities with APs to help them gain more experience. Large high schools with many APs could have those (who aspire to the principalship) rotate job responsibilities.
- For aspiring principals, the AP job could be a more explicit training ground, with shared leadership responsibilities.

Prospective school leaders need and appreciate good mentors and both formal and informal networks of peers.

- Network chiefs could ensure that prospective principals are connected formally with mentors who are actively engaged in supporting their leadership development.

As mentioned above, even principals who appear secure in their roles will benefit from mentorship. These more experienced principals may mentor newer principals and assistant principals. The role of the network chief could also evolve into a supportive rather than authoritative one, making sure that principals and assistant principals are in regular contact with more experienced people ready to provide advice.

- In addition to having mentors, prospective school principals and principals appear to benefit from networks of peers. Peer networks provide opportunities to share experiences, sound out new ideas, and debate the various pros and cons of new policies. They also provide open "space" to discuss instructional approaches, parent and community relationships, and teacher development, as well as identifying and supporting the next generation of school leaders. Networks may be geographical or focused on a specific topic (e.g., college readiness). They may also be "affinity" groups based on the race/ethnicity or gender of principals or of their student bodies. In any case, these are safe spaces where prospective principals and current principals build trust with colleagues and share opinions without fear of reprisals.

References

- Adams, C.M. (2013).** Collective trust: A social indicator of instructional capacity. *Journal of Educational Administration*, 51(3), 363-382.
- Anderson, S., Leithwood, K., & Strauss, T. (2010).** Leading data use in schools: Organizational conditions and practices at the school and district levels. *Leadership and Policy in Schools*, 9(3), 292-327.
- Algahtani, A. (2014).** Are leadership and management different? A review. *Journal of Management Policies and Practices*, 2(3), 71-82.
- Bastian, K.C., Henry, G.T. (2014).** The apprentice: Pathways to the principalship and student achievement. *Educational Administration Quarterly*, 51(4), 600-639.
- Bevel, R.K., & Mitchell, R.M. (2012).** The effects of academic optimism on elementary reading achievement. *Journal of Educational Administration*, 50(6), 773-787.
- Borko, H., Wolf, S.A., Simone, G., & Uchiyama, K.P. (2003).** Schools in transition: Reform efforts and school capacity in Washington state. *Educational Evaluation and Policy Analysis*, 25(2), 171-201.
- Branch, G.F., Hanushek, E.A., & Rivkin, S.G. (2012).** *Estimating the effect of leaders on public sector productivity: The case of school principals* (No. w17803). National Bureau of Economic Research.
- Brown, K.M., & Wynn, S.R. (2007).** Teacher retention issues: How some principals are supporting and keeping new teachers. *Journal of School Leadership*, 17(6), 664-698.
- Bryk, A., Sebring, P.B., Allensworth, E., Luppescu, S., & Easton, J. (2009).** *Organizing schools for improvement: Lessons from Chicago*. Chicago, IL: University of Chicago Press.
- City, E.A., Elmore, R., Fiarman, S.E., and Teitel, L. (2009).** *Instructional rounds in education: A network approach to improving teaching and learning*. Cambridge, MA: Harvard Education Press.
- Clark, D., Martorell, P., & Rockoff, J. (2009).** School Principals and School Performance. Working Paper 38. *National Center for Analysis of longitudinal data in Education research*.
- Coelli, M., & Green, D.A. (2012).** Leadership effects: School principals and student outcomes. *Economics of Education Review*, 31(1), 92-109.
- Crum, K.S., Sherman, W.H., & Myran, S. (2010).** Best practices of successful elementary school leaders. *Journal of Educational Administration*, 48(1), 48-63.
- Darling-Hammond, L., Wechsler, M.E., Levin, S., & Tozer, S. (2022).** *Developing Effective Principals: What Kind of Learning Matters?*. Learning Policy Institute.
- Davis, S.H., Leon, R.J., & Fultz, M. (2013).** How Principals Learn to Lead: The Comparative Influence of On-the-Job Experiences, Administrator Credential Programs, and the ISLLC Standards in the Development of Leadership Expertise among Urban Public School Principals. *International Journal of Educational Leadership Preparation*, 8(1), n1.
- Elfers, A.M., & Stritikus, T. (2014).** How school and district leaders support classroom teachers' work with English language learners. *Educational Administration Quarterly*, 50(2), 305-344.
- Fink, S. and Markholt, A. (2011).** *Leading for instructional improvement: How successful leaders develop teaching and learning expertise*. San Francisco, CA: Jossey-Bass.
- Finnigan, K.S. (2012).** Principal leadership in low-performing schools: A closer look through the eyes of teachers. *Education and Urban Society*, 44(2), 183-202.
- Garet, M.S., Wayne, A.J., Brown, S., Rickles, J., Song, M., & Manzeske, D. (2017).** *The impact of providing performance feedback to teachers and principals*. NCEE 2018-4001. National Center for Education Evaluation and Regional Assistance.
- Garza, Jr, E., Drysdale, L., Gurr, D., Jacobson, S., & Merchant, B. (2014).** Leadership for school success: Lessons from effective principals. *The International Journal of Educational Management*, 28(7), 798-811.
- Gordon, M.F., & Louis, K.S. (2009).** Linking parent and community involvement with student achievement: Comparing principal and teacher perceptions of stakeholder influence. *American Journal of Education*, 116(1), 1- 31.

- Grissom, J.A., Bartanen, B., & Mitani, H. (2019).** Principal sorting and the distribution of principal quality. *AERA Open*, 5(2), 2332858419850094.
- Grissom, J.A., & Condon, L. (2021).** Leading schools and districts in times of crisis. *Educational Researcher*, 50(5), 315-324.
- Grissom, J.A., Egalite, A.J., & Lindsay, C.A. (2021).** What great principals really do. *Educational Leadership*, 78(7), 21-25.
- Grissom, J.A., Kalogrides, D., & Loeb, S. (2015).** Using student test scores to measure principal performance. *Educational Evaluation and Policy Analysis*, 37(1), 3-28.
- Grissom, J.A., & Loeb, S. (2017).** Assessing principals' assessments: Subjective evaluations of teacher effectiveness in low-and high-stakes environments. *Education Finance and Policy*, 12(3), 369-395.
- Grissom, J.A., Loeb, S., & Master, B. (2013).** Effective instructional time use for school leaders: Longitudinal evidence from observations of principals. *Educational Researcher*, 42(8), 433-444.
- Hallinger, P., & Heck, R.H. (2010).** Collaborative leadership and school improvement: Understanding the impact on school capacity and student learning. *School Leadership and Management*, 30(2), 95-110.
- Hitt, D.H., Woodruff, D., Meyers, C.V., & Zhu, G. (2018).** Principal competencies that make a difference: Identifying a model for leaders of school turnaround. *Journal of School Leadership*, 28(1), 56-81.
- Hollingworth, L., Olsen, D., Asikin-Garmager, A., & Winn, K.M. (2018).** Initiating conversations and opening doors: How principals establish a positive building culture to sustain school improvement efforts. *Educational Management Administration & Leadership*, 46(6), 1014-1034.
- Huff, J., Preston, C., Goldring, E., & Guthrie, J.E. (2018).** Learning-centered leadership practices for effective high schools serving at-risk students. *Teachers College Record*, 120(9).
- Jacobson, S.L., Brooks, S., Giles, C., Johnson, L., & Ylimaki, R. (2007).** Successful leadership in three high-poverty urban elementary schools. *Leadership and Policy in Schools*, 6(4), 291-317.
- Jacobson, S.L., Johnson, L., Ylimaki, R., & Giles, C. (2005).** Successful leadership in challenging US schools: Enabling principles, enabling schools. *Journal of Educational Administration*, 43(6), 607-618.
- Johansen, M., & Hawes, D.P. (2016).** The effect of the tasks middle managers perform on organizational performance. *Public Administration Quarterly*, 40(3), 589-616.
- Johnson, J.F., Uline, C.L., & Perez, L.G. (2011).** Expert noticing and principals of high-performing urban schools. *Journal of Education for Students Placed at Risk*, 16(2), 122-136
- Khalifa, M. (2012).** A Re-New-ed paradigm in successful urban school leadership: Principal as community leader. *Educational Administration Quarterly*, 48(3), 424-467.
- Leithwood, K. (2013).** Strong districts & their leadership. *Toronto, Ontario: Ontario Institute of Education Leadership*.
- Leithwood, K., Louis, K.S., Wahlstrom, K., Anderson, S., Mascal, B., & Gordon, M. (2010).** How successful leadership influences student learning: The second installment of a longer story. In *Second international handbook of educational change* (pp. 611-629). Springer, Dordrecht.
- Leithwood, K., & Mascal, B. (2008).** Collective leadership effects on student achievement. *Educational Administration Quarterly*, 44(4), 529-561.
- Lorton, J.A., Bellamy, G.T., Reece, A., & Carlson, J. (2013).** Understanding schools as high-reliability organizations: An exploratory examination of teachers' and school leaders' perceptions of success. *Journal of School Leadership*, 23(6), 1047-1082.
- Louis, K.S., Murphy, J., & Smylie, M. (2016).** Caring leadership in schools: Findings from exploratory analyses. *Educational Administration Quarterly*, 52(2), 310-348.
- Ovando, M.N., & Ramirez, A. (2007).** Principals' instructional leadership within a teacher performance appraisal system: Enhancing students' academic success. *Journal of Personnel Evaluation in Education*, 20(1-2), 85-110.
- Price, H.E. (2012).** Principal-teacher interactions: How affective relationships shape principal and teacher attitudes. *Educational Administration Quarterly*, 48(1), 39-85.

- Price, H.E. (2015).** Principals' social interactions with teachers: How principal-teacher social relations correlate with teachers' perceptions of student engagement. *Journal of Educational Administration*, 53(1, SI), 116–139
- Robinson, V.M., Lloyd, C.A., & Rowe, K.J. (2008).** The impact of leadership on student outcomes: An analysis of the differential effects of leadership types. *Educational Administration Quarterly*, 44(5), 635-674.
- Sadri, G. (2012).** Emotional intelligence and leadership development. *Public Personnel Management*, 41(3), 535-548.
- Sebastian, J., Allensworth, E., Huang, H. (2016).** The role of teacher leadership in how principals influence classroom instruction and student learning. *American Journal of Education*, 123, 69-108.
- Sebastian, J., Allensworth, E. (2012).** The influence of principal leadership on classroom instruction and student learning: A study of mediated pathways to learning. *Educational Administration Quarterly*, 48(4), 626-663.
- Steinberg, M.P., & Sartain, L. (2015).** Does teacher evaluation improve school performance? Experimental evidence from Chicago's Excellence in Teaching project. *Education Finance and Policy*, 10(4), 535–572
- Shin, S.H., Slater, C.L., & Backhoff, E. (2013).** Principal perceptions and student achievement in reading in Korea, Mexico, and the United States: Educational leadership, school autonomy, and use of test results. *Educational Administration Quarterly*, 49(3), 489-527.
- Taylor, E.S., & Tyler, J.H. (2012).** The effect of evaluation on teacher performance. *American Economic Review*, 102(7), 3628-51.
- Tschannen-Moran, M. (2001).** Collaboration and the need for trust. *Journal of Educational Administration*.
- Tschannen-Moran, M. (2014).** The interconnectivity of trust in schools. In *Trust and School Life* (pp. 57-81). Springer, Dordrecht.

Appendix A

Data and Methods

For this study, our team interviewed 20 early career practicing school principals in CPS neighborhood schools between 2020 and 2021. To identify potential respondents, we narrowed the full sample of CPS principals in district-run schools in the 2018-19 school year (n=559) down to only those who had been in their roles between 1 and 3 years (n=159). Since our recruitment and interview timeline did not align exactly with the data available, sample principals had between 2 and 5 years of experience when we interviewed them. We wanted to learn from principals with varying backgrounds and experiences. Therefore, we purposely selected principals serving in (1) both elementary and high schools, (2), different parts of the city and across different networks, (3) schools with varying climates and student performance outcomes, based on a combined survey (*My Voice My School*) and student test score index, and (4) schools serving different student populations, including race/ethnicity, while prioritizing schools serving students in areas of the city that have been historically marginalized.

We began recruiting principals in the summer of 2020, first sending them an introductory email and then following up with more information about participation and scheduling. We reached out to a total of 47 principals to ask if they would participate in the study. Some principals we reached out to did not respond to our request or follow-up emails, and we had one principal who declined to participate. We reached out to more elementary school principals than high school principals to reflect the greater proportion of elementary schools in CPS compared to high schools. Our final sample included 12 elementary school and eight high school principals. We also purposely selected principals who had been a part of the Chicago Leadership Collaborative (n=10).

Each interview lasted between 60 and 75 minutes and took place over Zoom due to COVID-19 pandemic restrictions. Interviews were recorded and transcribed verbatim. We asked principals to tell us about:

- Their backgrounds and key education and non-education related roles prior to becoming principals
- In what ways they benefitted from these roles and experiences in helping prepare them for the principalship
- Their formal preparation program experiences, including what they learned during their classes and residencies/internship experiences
- Their general impressions of their preparation program and whether and how the experience prepared them for the role
- Other formal or informal experiences that helped them develop essential skills
- Their perspectives and opinions about what it takes to be a successful principal
- The types of supports or experiences they wished they had prior to becoming principals

We used NVivo, a qualitative software program, to analyze and code the interviews. We first created an initial codebook based on the research and protocol questions. We added additional relevant codes that emerged from the data. After coding, we summarized what we learned in memos, checking and cross-checking each other's understanding of the data. Lastly, we searched for broader patterns, relationships, and themes in the data and compared our findings with the broader literature base on what it takes to be a successful school leader.

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UChicago Consortium on Chicago School Research conducts research of high technical quality that informs and assesses policy and practice in the Chicago Public Schools, with the goal of supporting stronger and more equitable educational outcomes for students. We seek to expand communication among researchers, policymakers, practitioners, families, and communities as we support the search for solutions to the challenge of transforming schools. We encourage the use of research in policy action and practice but do not advocate for particular policies or programs. Rather, we help to build capacity for systemic school improvement by identifying what matters most for student success, creating critical indicators to chart progress, and conducting theory-driven evaluation to identify how programs and policies are working.

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