Coaching is one of the most promising levers for educational equity. However, we don’t yet understand how more impactful coaching interactions differ from less impactful interactions. Despite the common title of “coach,” what coaches do to support teachers is highly variable. This leaves practitioners with a many choices and little evidence-based direction. Furthermore, the literature provides only rare glimpses into the concrete discourse strategies coaches can use. To address these gaps, this paper introduces a taxonomy of coaching discourse practices. In developing the taxonomy, I conduct a conceptual, qualitative review of the coaching literature to identify potential discourse moves. The taxonomy serves as a common language to describe coaches’ interactions with teachers and how they may influence teacher development.

Acknowledgements:
I am grateful to Kylie Anglin, Julie Cohen, Vivian Wong, Allison Atteberry, Beth Scheuler, Lynsey Gibbons, Heather Hill, Kavita Matsko, Abby Reisman, Josh Goodrich, and Nicholas Kochmanski for their helpful feedback on earlier versions of the taxonomy and manuscript.

Available at: https://education.virginia.edu/research-initiatives/research-centers-labs/edpolicyworks/working-papers-briefs-publications
Parsing Coaching Practice: A Systematic Framework for Describing Coaching Discourse

Over the last three decades, coaches, mentors, and consultants have become a regular fixture in schools around the world (Domina et al., 2015; Kraft et al., 2018; Lochmiller, 2021). During student teaching placements, pre-service teachers regularly meet with their mentor teachers and supervisors to discuss prior lessons and plan for future ones (Matsko et al., 2020). Early career teachers are often assigned mentors or instructional coaches (Kutsyuruba & Godden, 2019). As part of teacher evaluation systems, administrators provide feedback and support in debriefs following classroom observations (Donaldson & Woulfin, 2018; Hunter & Springer, 2022). Increasingly, schools are incorporating one-on-one instructional coaching as a central component of professional development for all teachers (Galey, 2016; K. Johnson, 2016; Neufeld & Roper, 2003). While important distinctions can be made between these programs, they are unified by a key component of their theory of action: that engaging in dialogue about the day-to-day details of a teacher’s classroom and instruction with another education professional (teacher, administrator, coach, etc.) can spur improvements in teachers’ instruction and student learning. For this reason, I use the term coaching here to refer collectively to coaching, mentoring, and consultation programs.

One reason coaching is so widespread is the growing evidence it can enhance teachers’ instruction and improve student learning, unlike most other forms of professional development (Davis & Higdon, 2008; Hardt et al., 2020; Kraft et al., 2018; Ronfeldt et al., 2018; Ronfeldt & Reininger, 2012; R. Stanulis & Floden, 2009). This kind of personalized support is also highly valued by teachers (Clark & Byrnes, 2012; Gross, 2010; Ronfeldt et al., 2020). Together, this makes coaching one of the most promising levers for ensuring equitable access to educational opportunities (Alston et al., 2018; Hiebert & Morris, 2012; Kloser et al., 2019).

Yet realizing this promise is not straightforward. The administrators and coaches responsible for implementing coaching programs face a dizzying array of different coaching models and ideas about what coaches can say and do in their interactions with teachers to support their development. Knight’s (2009) edited volume on coaching alone introduces seven different types of coaching, including instructional coaching, cognitive coaching, and content coaching. While studies exploring the effects of specific models abound, few studies make comparisons across different models of coaching to understand what coaching practices are the most helpful, for whom, and under what circumstances. Furthermore, synthesizing across studies is complicated by the lack of a common language for describing the practices coaches use. This makes it difficult to identify patterns across studies in how coaching practice supports teacher development. As a result, coaches and
administrators are left with many options and little evidence-based direction for how to select among them (Galey, 2016; Gibbons & Cobb, 2016). These challenges are further exacerbated by the literature’s focus on more abstract features of coaching practice, with limited attention to the concrete discourse strategies coaches can use to achieve these aims. For example, there is broad consensus about the need for coaches to build trusting relationships with their teachers, but little evidence-based guidance that highlights what coaches can say and do to build such relationships. Thus, coaches and administrators are left largely on their own to identify specific discourse strategies, such as validating a teachers’ emotions, that can help them reach these goals.

Rather than relying on administrators to recruit coaches with strong “people skills” or placing the onus on practitioners to “figure it out” on their own, we need a systematic program of research designed to identify effective coaching discourse strategies across contexts and program models. To do so, we first need a coherent framework that can provide a common language for describing coaching discourse strategies and outline potentially promising strategies that warrant further investigation. This paper therefore introduces a taxonomy of concrete coaching discourse “moves,” or questioning and feedback discourse strategies coaches may use in their interactions with teachers as the foundation for a framework of coaching practice (Boerst, et al., 2011). This work is informed by the literature on frameworks of teaching practice, which have helped researchers refine their understanding of high-quality teaching practice and are shaping teacher education (Boerst, et al., 2011; Cohen, 2015; Grossman et al., 2009; Grossman & McDonald, 2008; Lampert & Graziani, 2009). Contemporary frameworks of teaching practice use a nested structure, beginning with high-level practices and instructional purposes that are successively decomposed into ever more detailed and specific components, culminating in concrete discourse moves. These frameworks are built on decades of research identifying specific discourse strategies, like wait time and revoicing student contributions, that contribute to student learning (O’Connor & Michaels, 1993; Rowe, 1986; Tobin, 1987). Similar foundational work has yet to be conducted for coaching practice.

This paper, and the taxonomy it introduces, focus exclusively on coaching discourse moves because they are under explored in the literature and likely influence teacher learning. While the coaching literature is filled with discussions of high-level coaching practices and purposes, such as building trust and supporting teacher self-reflection, there is a dearth of analogous research on how concrete coaching discourse strategies support teacher development (Heineke, 2013; King et al., 2004; L’Allier et al., 2010; Obara, 2010; Robertson et al., 2020; Sisson & Sisson, 2017; Walpole et al., 2010). Yet, there is good reason to believe that coaching discourse strategies matter for teacher
development. Given the substantial evidence of the role of teacher discourse in student learning, it seems unlikely that teacher learning would not also be influenced by coach discourse (Demszky & Hill, 2022; O’Connor & Michaels, 1993; Rowe, 1986; Tobin, 1987). Additionally, the limited available literature provides suggestive evidence of the importance of coach discourse strategies (Heineke, 2013; Hunt, 2016; Robertson et al., 2020; Sims & Fletcher-Wood, 2021). Finally, though the existing literature does not focus on discourse moves as the unit of analysis, examples and descriptions of coaching discourse are frequently used in the academic and practitioner literature to illustrate how coaches can implement these practices (Aguilar, 2013; Ippolito, 2010; Knight, 2019). This suggests a widespread belief in the importance of coaching discourse for teacher development and for differentiating between different approaches to coaching.

In developing the taxonomy, I conduct a conceptual, qualitative review of the coaching literature to identify potential discourse moves. Instead of following a systematic review process, I strategically sample several kinds of resources, including academic research and practitioner resources, to understand the nature and breadth of observed coaching discourse. In this way, the methods that I use are more akin to those used to develop qualitative codebooks (Miles et al., 2014). In identifying relevant literature, I use a broad definition of a coaching conversation as a dialogue between two or more education professionals, where:

- at least one participant is a classroom teacher, and the primary focus of the dialogue is on this teacher’s classroom, this teacher’s current teaching practice, and/or opportunities for the teacher to improve or change their teaching practice; and
- a different participant – the coach – serves as the facilitator to maintain focus on these topics.

This definition is purposely broad to be applicable to a variety of coaching models and contexts.

In introducing a taxonomy of coaching discourse moves, this paper makes three primary contributions. First, the taxonomy can serve as a conceptual framework for future empirical research, providing a common language for describing coaching discourse and articulating aspects of coaches’ interactions with teachers that warrant further investigation. Second, the taxonomy can provide a practical toolkit and technical vocabulary for coaching practitioners, synthesizing our existing knowledge of coaching discourse into a flexible repertoire of discourse strategies that can be used to reflect on and plan for coaching conversations. Third, in serving as a common language for coaching research and practice, the taxonomy can foster greater integration between coaching research and practice. A shared framework and language for describing coaching discourse will
facilitate the systematic accumulation, synthesis, and application of new knowledge about coaching (Boerst, et al., 2011; Charalambous & Praetorius, 2020; Hiebert & Morris, 2012; Kloser et al., 2019; McDonald et al., 2013). Currently, studies of coaching include a wide variety of programs, defined and operationalized in different ways, and described in varying levels of detail with inconsistent terminology. This requires authors of reviews and meta-analyses to dedicate substantial energy to making sense of these differences and developing a common coding scheme or conceptual framework to enable comparison across studies (Kraft et al., 2018). However, when individual studies use a common language for describing coaching, identifying patterns across studies, and conducting meta-analyses will be considerably easier. Furthermore, when coaching practitioners use the same language as one another to discuss their work, they will be better able learn from and support each other. Finally, when researchers and practitioners use the same language, it will be easier for researchers to communicate their insights to practitioners and for practitioners to act on these insights in their daily practice.

In the sections that follow I review the literature on coaching, describe my methods for developing the taxonomy, describe the taxonomy’s structure and content, and illustrate how the taxonomy may be used by researchers and practitioners.

Background

What is coaching?

Like many popular educational interventions and innovations, how coaching is operationalized and implemented is highly variable. Indeed, a non-trivial portion of the literature focuses on defining and categorizing specific approaches to coaching. In their foundational work, Joyce and Showers (1981) describe coaching as ongoing cycles of “observation and feedback” (p. 170) where a coach aims to help improve a teacher’s implementation of new instructional strategies introduced as part of professional development workshops or other programming. Later work introduces additional conversational structures, distinguishes between different kinds of coaching, and differentiates mentoring and consultation from coaching.

In attempt to identify potentially productive coaching activities, Gibbons and Cobb (2017) describe 19 structures coaches can use in their interactions with teachers. In addition to observation and feedback cycles, they include structures like co-teaching (where the coach and teacher together plan and teach a lesson), modeling instruction (where the teacher observes the coach’s or another teacher’s instruction and then debriefs the observation with the coach), lesson planning (where the
coach and teacher plan a future lesson together), examining student work, and facilitating opportunities for a teacher to rehearse new instructional practices and receive feedback.

Other work focuses on more nuanced features of coaches’ interactions with teachers to distinguish among different coaching approaches. Several scholars, for example, reference the distinction between responsive coaching, where the coach allows the teacher’s self-reflections and goals to guide content of coaching, and directive coaching, where the coach draws on their own expertise to provide directive suggestions about what the teacher should change (Deussen et al., 2007; Dozier, 2006; McGatha, 2017). Several specific models of coaching are also defined by expectations about how coaches should interact with teachers. Knight’s (2007) Instructional Coaching approach, for example, highlights seven partnership principles, including collaborating with teachers as equal partners and promoting teacher choice and decision-making. Whereas Instructional Coaching emphasizes the coach’s role as a partner that works together with the teacher, Cognitive Coaching emphasizes the role of the coach as a facilitator whose goal is to help teachers exercise self-direction without offering their own judgment or advice (Costa & Garmston, 2002).

Other types of coaching are differentiated by the goals of the support provided. Literacy coaches, for example, are expected to work with students and teachers to promote student literacy, while mathematics coaches are expected to support teachers with developing students’ mathematical skills (Obara, 2010; Toll, 2009; West, 2009). Some coaching programs focus on specific professional skills such as classroom management or data analysis (Marsh et al., 2010; Means et al., 2010; Reinke et al., 2009). Still other coaching programs look beyond individual teachers’ practice to foster school or district-wide instructional reform (Woulfin, 2018; Woulfin & Rigby, 2017).

Approaches to coaching are also sometimes differentiated by who coaches and teachers are rather than what they do in their interactions. Ackland (1991), for example, distinguishes between expert peer coaching, where a more accomplished teacher supports the development of a less accomplished teacher, and reciprocal peer coaching, where teachers of similar skill levels work together. Other models rely on accomplished teachers who leave the classroom to focus primarily on supporting other teachers (Coggins et al., 2003; Kane & Rosenquist, 2019; Knight, 2007). Additionally, while some authors include conversations between a facilitator and multiple teachers as a form of coaching, others define coaching as one-on-one meetings between a single teacher and coach (Gibbons & Cobb, 2017; Kraft et al., 2018).
It is notable that few of these definitions are mutually exclusive. A coaching program in which teachers of similar skill levels coach each other on instructional strategies for mathematics reflects elements of both peer-to-peer coaching and mathematics coaching. Similarly, one can imagine a variety of different content-specific coaching programs that might rely on different structures and coaching practices. Existing work suggests that coaches may draw on both directive and responsive strategies even within a single coaching conversation (Ippolito, 2010).

This complexity is even more evident in the literature on mentoring and consultation. Not only is there no consensus about what distinguishes mentoring from consultation from coaching, but there is also considerable overlap in many of the definitions provided (Downer et al., 2018; Lancer et al., 2016). For example, both coaching and mentoring are sometimes described as relationship-oriented and may involve providing emotional support for teachers (Downer et al., 2018; Mena et al., 2016). Similarly, both coaching and consultation are sometimes described as individualized supports provided to help teachers with implementing specific instructional practices (Joyce & Showers, 1981; Kurz et al., 2017; Reinke et al., 2008).

With all this overlap, how to synthesize findings across studies is not at all clear. Can findings about effective strategies for building relationships in a mentoring program generalize to other kinds of programs? Can a district combine evidence on peer coaching with evidence on literacy coaching to create peer literacy coaching? Or does the evidence on literacy coaching only apply when coaches are literacy experts, as literacy coaching typically requires? Without a common language for differentiating between coaching programs and describing how coaches’ interactions vary, we cannot develop a systematic understanding of coaching. In the meantime, coaches and administrators are left to muddle through this complexity on their own.

**How do coaching conversations support teacher development?**

The literature offers a range of ideas about how coaches’ interactions with teachers can support teachers’ professional development and instructional practice. Common theories are summarized in Figure 1. Many scholars, for example, highlight the *job-embedded* nature of coaching interactions as a key mechanism that makes coaching conversations valuable for teachers. Because coaching conversations are grounded in the details of teachers’ day-to-day instruction, content, and students, they are responsive to teachers’ needs and provide authentic opportunities for teachers to make connections between theory and the practical details and challenges of instruction in the context of their daily work (Collet, 2012; Croft et al., 2010; Koh & Neuman, 2006; Putnam & Borko, 2000; Terehoff, 2002).
Coaching conversations can also be conceptualized as active learning opportunities where, instead of serving as only passive recipients of information, teachers actively participate in tasks such as self-reflection, problem-solving, data-analysis, lesson-planning, and practicing instructional strategies (Desimone & Pak, 2017; Shernoff et al., 2015). Active participation necessitates a deeper level of mental engagement than that required by more passive activities and provides opportunities for teachers to construct new knowledge in collaboration with the coach (Lieberman, 1995; Niemi et al., 2016). Coaches can also use their time with teachers to help them make sense of the many competing pressures and challenges they face (e.g. district priorities, content standards, and principal priorities, student needs) and determine how to navigate and respond to them (Desimone & Pak, 2017). In this way, coaches can help create coherence and alignment between what teachers are working on with their coach, what teachers have previously worked on, other expectations placed upon them outside of coaching, and teachers’ own viewpoints and beliefs (Coburn & Russell, 2008; Coggins et al., 2003; Lowenhaupt et al., 2014; Swinnerton, 2007).

Whether teachers implement and maintain the practices discussed in coaching conversations depends in large part on teachers’ motivation to participate in coaching and develop a particular area of their practice (Gorozidis & Papaioannou, 2014; Hill et al., 2021; Kennedy, 2016a; Power & Goodnough, 2019). One way that coaches do this is by helping teachers recognize the potential benefits and purposes of a particular instructional goal or strategy (e.g. through explaining the research base, describing benefits for students, or modelling the strategy and asking the teacher to observe the impacts) (Gibbons & Cobb, 2016; Sims & Fletcher-Wood, 2021). Self-Determination Theory (Korthagen, 2017; Ryan & Deci, 2000) highlights several other routes through which coaches may support teacher motivation. First, coaches can help support teachers’ feelings of competence by orchestrating mastery experiences, providing encouragement, and drawing teachers’ attention to their own professional growth, strengths, and positive impacts on students (Collet, 2012; Knight, 2009; Kurz et al., 2017). Second, coaches can help support teachers’ feelings of relatedness by building a strong relationship of mutual respect, trust, and support (Lowenhaupt et al., 2014; Power & Goodnough, 2019; Shernoff et al., 2015). Third, coaches can help support teachers’ autonomy by creating opportunities for teachers to express their views and exercise choice and influence over what happens in the coaching session and its implications for their classroom instruction (Kennedy, 2016a; Knight, 2009; Power & Goodnough, 2019).

In addition to supporting teacher motivation and commitment to developmental goals, asking authentic questions that provide opportunities for teachers to express their own views,
interpretations, and ideas also serves as a scaffold to support teachers’ reflection and problem-solving skills (Collet, 2012; Heineke, 2013; Koh & Neuman, 2006). Coaches can help teachers develop professional expertise and judgment through strategic questioning that requires teachers to analyze and reflect on classroom events, their students’ responses and needs, their own instruction, and their goals for future lessons, (Barnhart & van Es, 2015; Denton & Hasbrouck, 2009; Hiebert & Morris, 2012; Santagata & Angelici, 2010; Teemant, 2014; Winch et al., 2015).

Some scholars also highlight the coach’s role as a source of instructional expertise to scaffold teachers’ instructional practice and decision-making. As an expert “other,” coaches can provide teachers with valuable feedback, instructional ideas, and support with implementing new ideas based on the coach’s assessment of the teacher’s and students’ needs (Bean et al., 2010; Coburn & Woulfin, 2012; Cohen et al., 2020; Collet, 2012; Heineke, 2013). In providing feedback on prior instruction, coaches can help teachers understand their strengths and weaknesses, and identify problems, challenges, and manageable goals for improvement (Blazar & Kraft, 2015; Cassidy et al., 2008; Hunter & Springer, 2022; Kurz et al., 2017; Tung et al., 2004).

Coaches also bring additional knowledge of content and pedagogy, which they can use to identify and suggest ideas and strategies that teachers may not have been able to identify on their own (Joyce & Showers, 1981; Knight, 2009; Reddy et al., 2019). Coaches can also demonstrate how they use this knowledge in action by modelling their thinking processes and how a particular instructional strategy can be implemented in practice (Joyce & Showers, 1981; Knight, 2009; Kurz et al., 2017; Reddy et al., 2019). Finally, coaches can help teachers successfully enact new practices (Kennedy, 1999) by facilitating opportunities for rehearsals and other kinds of deliberate practice (Cohen et al., 2020; Ippolito, 2010; Reddy et al., 2019).

Of course, what coaches do and say during coaching conversations is not the only thing that influences teacher development. Coaches’ activities outside of these conversations, including how coaches plan for their interactions with teachers, collaborate with administrators, or analyze teacher instruction and student learning during classroom observations also matter (Bean & DeFord, 2012; Gibbons & Cobb, 2016; Walpole & McKenna, 2012; Woulfin, 2018). Coaches’ relationships with the teachers they coach are also influenced by prior experiences, coach reputation, interactions outside of coaching conversations, and perhaps even coach characteristics such as race and gender (Anderson et al., 2014; Blazar et al., 2021; S. Johnson et al., 2018; Tschannen-Moran, 2004). Other literature highlights the role of additional coach characteristics and features of the broader context, including coach expertise, the nature of coaches’ job responsibilities, school leadership and culture,
and local policy context (Blazar & Kraft, 2015; Booker & Russell, 2022; Deussen et al., 2007; Gallucci et al., 2010; Lowenhaupt et al., 2014; Marsh et al., 2012).

**Coaching Discourse Strategies**

Despite the substantial attention to how coaching can support teacher development, literature exploring the nature and effects of coaches’ discourse strategies is comparatively limited (Gibbons & Cobb, 2016; Kurz et al., 2017; Robertson et al., 2020). While only a handful of studies specifically focus on identifying coaching discourse strategies, descriptions and examples of coach discourse are often included in other coaching literature. Combining these examples into a coherent framework of coaching discourse is not straightforward, however, because of the different approaches used to describe and distinguish between different strategies. Discussions of coaching discourse vary especially along three dimensions: grain size, framing, and normativity. Below, I define each of these features and provide examples of how they play out in the literature.

**Grain Size**

Grain size refers to the level of specificity and concreteness used to describe the components of coaches’ interactions with teachers (Boerst, et al., 2011; Kennedy, 2016b). Existing studies of coaching tend to identify components of a relatively large grain size, offering only glimpses into the concrete details of coaching discourse. Many studies highlight broad conversational activities, (e.g. providing feedback based on an observation, setting goals, modelling, or planning for future instruction), topics (e.g. content-specific instructional strategies, teacher emotions), and goals (e.g. developing a trusting and equal partnership) that can support teachers (Gibbons & Cobb, 2017; Hunt, 2016; Marsh et al., 2015; Matsumura et al., 2013; Teemant, 2014).

What is largely unspecified, however, are the concrete details of what coaches can say and do to achieve these aims. A handful of qualitative studies have begun to investigate features of coach dialogue, such as coach versus teacher talk time, the use of open-ended questions, and patterns of interaction (Collet, 2012; Heineke, 2013; Shernoff et al., 2015). Robertson et al. (2020), for example, highlight three patterns of coach-teacher interaction observed in coaching interactions and associated with teachers’ uptake of the instructional ideas discussed. Though some of these studies include some attention to specific kinds of utterances or coaching “moves,” such as “affirms an action or statement made by the teacher,” (Robertson et al., 2020, p. 412) such granular-level detail is not the primary focus in these studies.

Resources designed by practitioners for practitioner audiences, however, often describe specific coaching moves and provide exemplar coach dialogue to illustrate how coaches can achieve
the broader coaching styles these resources aim to inspire. For example, in addition to describing the purpose and idea behind active listening during coaching conversations, Aguilar (2013) explains that one strategy coaches can use to achieve this is to “repeat back or paraphrase what the other person says” (p. 153). Researcher-created handbooks designed to guide coaches in implementing researcher-designed coaching models provide similar concrete suggestions (Knight, 2007; L’hospital et al., 2016). Unfortunately, because of the lack of attention to this small grain size in the research literature, there is little empirical evidence to support the suggestions made in these resources (Cornett & Knight, 2009; Gibbons & Cobb, 2017).

**Framing**

Framing refers to the extent to which the literature describes observable practitioner actions (i.e. what teachers and coaches do) versus the intended outcomes or purposes behind the actions a practitioner may take (i.e. why coaches and teachers do it) (Forzani, 2014; Kennedy, 2016b). This often correlated with grain size. For example, the coaching strategy of building a strong coach-teacher relationship both describes an intended outcome and is at a large grain size. At the same time, providing positive praise both describes an observable action and is at a smaller grain size.

This is also evident in the coaching literature, where discussion of more granular coaching discourse strategies tends to highlight observable coaching actions (e.g. suggesting an instructional strategy) rather than goals and purposes (e.g. draw teacher’s attention to a specific instructional strategy) (Heineke, 2013; Hunt, 2016; Robertson et al., 2020). However, many of the discussions of coaching interactions at larger grain sizes also describe what coaches do rather than why they do it as seen in the discussion of conversational activities and topics highlighted above. Practitioner-facing resources, on the other hand, tend to describe both observable actions and purposes (Aguilar, 2013; L’hospital et al., 2016).

**Normativity**

Normativity refers to whether the identified components of coaching discourse are intended to reflect high-quality coaching practice that coaches should use or simply describe observed coaching practice (Goe et al., 2008; Kennedy, 2016b). In general, the coaching literature, practitioner-created resources, and coaching handbooks tend to provide normative guidance for what coaches should do based on an underlying theory of how coaching can influence teacher development (Aguilar, 2013; Desimone & Pak, 2017; Gibbons & Cobb, 2017; Sisson & Sisson, 2017). However, several descriptive studies illustrate how withholding normative judgment enables the development of new, empirically grounded ideas about what may constitute high quality coaching practice. For example,
drawing on a descriptive analysis of how coaching practice varied among 20 Reading First coaches, Bean (2010) identifies qualities of coaches’ practice that are more and less valued by the teachers with whom they work. Similarly, Robertson et al. (2020) draws on a descriptive analysis of patterns in coach and teacher discourse to identify patterns of interaction that are associated with teacher learning.

Methods

Phase 1

I began by conducting a conceptual review of the literature on coaching using broad search of the Google Scholar (scholar.google.com) database to identify an initial set of empirical and conceptual studies that could provide insight on the nuances of coach-teacher interactions. Search terms included references to coaching (e.g. coaching, instructional coaching, teacher coaching), references to coaching discourse (e.g. discourse, dialogue, coach-teacher interactions), and references to components of coaching (e.g. moves, activities, strategies). In reviewing these initial results, I discarded studies that did not include any discussion of coaching discourse, only keeping studies that included at least one example of coach dialogue or description of coaching conversation content. I also identified additional studies of interest from the citations included in the initial search results. I supplemented my review of the academic literature with an exploration of the limited body of researcher- and practitioner-developed literature that focuses on the nuances of coach dialogue. In this way, I aimed to ensure that the resulting coaching moves taxonomy would be grounded in our existing understanding of coaching practice.

Phase 2

Though the literature provides little attention to concrete coaching moves, many studies I found in my initial search included examples of coach dialogue and other indirect clues about what coaches should say or do. In the second phase, I used this as a starting point for identifying specific discourse moves that coaches may use to achieve the goals discussed in these studies. First, I read and coded the retained studies and practitioner resources to develop an initial list of potential coaching moves. In doing so, I employed an inductive coding approach, developing in vivo codes to describe the moves illustrated in the literature, while preserving each author’s language and approach to describing a given move (Miles et al., 2014). This process resulted in a list of hundreds of potential coaching moves. I continued reviewing additional literature and adding to my list of coaching move codes until I ceased identifying distinct moves. This approach is akin to the method of saturation in coding qualitative data (Glaser & Strauss, 1967; Hennink et al., 2017).
Phase 3

In the third phase, I focused on shaping the long list of potential coaching moves into a coherent and well-organized framework. First, I grouped the codes by grain size, framing, and normativity. I then compared the moves in each group to identify where there was conceptual overlap in the moves. Where gaps were present, I created additional moves to ensure that each group included the full breadth of concepts I identified in the literature. In this way, I was able to compare the different approaches to defining coaching moves and think through their affordances and constraints. Ultimately, I selected the approach that would maximize the level of detail, clarity, and practical relevance of the moves, while also ensuring that the moves could be flexibly grouped in many ways to reflect the different coaching models, approaches, and purposes. I discuss the details of and rationale for my chosen approach in the Results section below.

Phase 4

I also engaged in two additional steps to ensure that the framework could describe a wide range of coaching practice and that the definitions and distinctions between moves were clear. First, I returned to the coaching literature, comparing the moves in my taxonomy with literature I had not yet read and revising the moves as needed to accommodate gaps. I continued this process until I stopped identifying additional revisions. Second, I hired four undergraduate students to pilot the framework by applying it as a coding scheme to a random sample of coaching transcripts from a previous study of coaching (see Cohen et al., 2021). In each round of piloting, several coders coded the same set of transcripts, then met to discuss their codes and identify codebook adjustments that would improve the clarity, reliability, and face validity.

After several rounds of piloting and revision, I shared the framework with five well-respected coaching researchers to ensure content validity. These experts offered feedback on ways to improve the clarity of the taxonomy, better distinguish between closely related moves, organize the moves into groups based on conceptual themes, and additional elements of coaching discourse to consider incorporating into the taxonomy. I then engaged in several additional rounds of revision and piloting with undergraduate coders to implement the feedback I received.

Results

Here, I present the final taxonomy of coaching discourse moves. First, I describe the grain size, framing, and normativity of the taxonomy. Then I introduce the 45 moves that make up the taxonomy. Finally, I use stylized vignettes to illustrate how the taxonomy can enhance our understanding of coaching discourse.
Grain Size, Framing, and Normativity

The final taxonomy articulates what coaches do at the highly granular level of “moves” (Boerst, et al., 2011; Heineke, 2013). As I discovered in Phase 3 of my analysis, discourse moves can be defined in many ways. While some descriptions focused on individual coach utterances or turns of talk, others focused on broader sequences of dialogue. There was also variety in the level of detail used to describe their structure, with strategies as general as questions (Aguilar, 2013) and as specific as affirming a teacher’s prior instructional decision (Collet, 2012). Finally, while some strategies were defined in terms of their structure and function (e.g. asking for clarification [Robertson et al., 2020] or asking the teacher to justify a claim [Gibbons et al., 2018]), others were defined by the object or subject to which a coach was referring (e.g. asking questions about student thinking [Gibbons et al., 2018]).

In the final taxonomy, coaching moves are defined as individual coach utterances characterized primarily by their structure and function, with limited reference to the objects or subjects included in an utterance. Thus, the move labelled Cause & Effect is defined as “questioning that explicitly asks the teacher to reflect on the effect(s) that stemmed from a particular cause and/or the cause(s) that led to a particular effect” without specifying whether the cause or effect mentioned relates to teacher actions, student actions, or something else. This approach is purposely modelled after prior work on teaching moves, especially moves used to lead classroom discussions (Chapin et al., 2003; O’Connor & Michaels, 2019).

The moves included in the final taxonomy also describe the observable content of coaches’ discourse rather than the purposes such discourse may serve. This approach to framing aims to address the limited attention to what coaches can say and do to support teacher development in the existing coaching literature. Defining the Cause & Effect move by purpose, which might sound like “drawing the teacher’s attention to cause and effect relationships,” creates considerable ambiguity as to what a coach should say to enact such a move. Rather than prioritizing coaching purposes and leaving coaches to determine the specific discourse strategies they can use to achieve them, the coaching moves taxonomy instead prioritizes core discourse techniques, leaving coaches to determine the purposes they may serve and how they may be combined to achieve broader goals that facilitate teacher development (Hiebert et al., 2002; Reisman et al., 2019; Winch et al., 2015).

One potential criticism of this approach to framing is that it may reduce coaching practice to a disconnected set of rote discourse techniques that belies its complex, integrated, and context-specific nature and may encourage coaches to apply these techniques in mechanical and potentially
inappropriate ways (Forzani, 2014; Grossman & McDonald, 2008; Kennedy, 2016b; O'Connor & Michaels, 2019). I agree that this is a potential danger. For example, borrowing from Aguilar (2013) and the MTP + 4Rs Coaching Handbook (Morningside Center for Teaching Social Responsibility, 2012), I define the mirroring move as “repeating or rephrasing what a teacher has just said”.

Repeated, rote use of this move every time a teacher speaks is unlikely to be helpful. Instead, mirroring is one tool, among many, that coaches can draw on to help teachers feel heard, build a strong coach-teacher relationship, and support teacher motivation (Aguilar, 2013; Hunt, 2016).

Mirroring may also serve other purposes. Hearing one’s own ideas repeated back may also support teachers with analyzing and reflecting on their own beliefs or interpretations of a particular situation (Ippolito, 2010; O’Connor & Michaels, 1993). Of course, not all teachers will benefit from the mirroring move or be spurred to question their own beliefs because of it. This reinforces the contextual nature of coaching where the same moves may be used for different purposes and different moves may be necessary in different contexts to achieve the same purpose (Russell et al., 2020). This does not diminish the value of mirroring as a discourse strategy coaches may use.

However, it does make it challenging to define or group moves together by purpose. For this reason, I organize the taxonomy based on the content and structure of the moves. However, I also incorporate attention to purpose by highlighting potential mechanisms (see Figure 1) each move may serve. In this way, the taxonomy recognizes the dynamic nature of coaching discourse, while still providing a common language for describing and operationalizing these details across studies and contexts.

Finally, while I connect each move included in the taxonomy to existing literature on coaching and the mechanisms they may serve, the taxonomy is not designed to provide a normative vision of what high-quality coaching practice should look like. Instead, the taxonomy is purposely designed to provide a descriptive view into the breadth of coaching practice given the lack of prior research focused on the granular details of coaching practice and its effects on teachers.

The Coaching Moves

Moves are grouped into six larger categories (Figure 2) to reflect structural distinctions between them, with 5-10 moves per group. In Tables 1-7, I list the corresponding moves, their definitions, exemplar coach dialogue to illustrate each move in action, the potential purposes they may serve, and the supporting literature for each group.

I first distinguish between asking moves, in which coaches pose open-ended questions that may prompt teacher reflection, analysis, and sense-making (Collet, 2012; Desimone & Pak, 2017;
Heineke, 2013; Koh & Neuman, 2006; Shernoff et al., 2015), and telling moves where the coach provides the teacher with information and more directive feedback (Bean et al., 2010; Coburn & Woulfin, 2012; Ippolito, 2010; Kurz et al., 2017; Reddy et al., 2019). I also distinguish between backward-facing moves, which focus on processing and providing feedback on what has previously occurred, and forward-facing moves, which focus on planning for future lessons and changes to instruction (Hattie & Timperley, 2007; Sisson & Sisson, 2017).

The first four groups consist of all possible combinations of these labels. Group 1 (Table 1) consists of moves that are asking and backward-facing (a.k.a. AskBack moves). By virtue of their structure as questions, I hypothesize that these moves may support teacher analysis and reflection and embody active learning principles. In focusing on prior instruction, these moves help ensure that coaching conversations are also job-embedded. Specific moves may also serve additional purposes, as noted in Table 1. Group 2 (Table 2) consists of moves that are telling and backward-facing (a.k.a. TellBack moves). By virtue of their structure as more directive statements, I hypothesize that these moves may serve as important sources of feedback and may also serve to scaffold teachers’ analysis and reflection, among other move-specific purposes. As with the first group, these moves also contribute to ensuring that coaching conversations are job-embedded. Group 3 (Table 3) consists of moves that are asking and forward-facing (a.k.a AskForward moves) and may provide a job-embedded, active learning opportunity while also supporting teacher analysis and reflection. Finally, Group 4 (Table 4) consists of moves that are telling and backward-facing (TellBack moves), which may allow coaches to communicate feedback and share their knowledge of content and pedagogy.

The remaining two groups focus on moves that fall outside of the four groups above, but may nonetheless be used by coaches for important purposes. The fifth group (Table 5) consists of moves in which the coach facilitates a structured activity, such as analyzing study data or reviewing curricular materials with the teacher. In addition to providing an opportunity for active learning, each activity may address other coaching mechanisms as illustrated in Table 5. The final group (Table 6) consists of moves that may not directly support teachers’ instruction or professional knowledge but may promote a stronger coach-teacher relationship and teacher motivation more broadly through building rapport (Knight, 2009; Lowenhaupt et al., 2014; Power & Goodnough, 2019; Shernoff et al., 2015).

Applying the Taxonomy

There are two main ways scholars and practitioners might use the taxonomy in practice. First, it might be used retrospectively to analyze coaching discourse. Second, it might serve as a
prospective tool for planning coaching conversations or articulating the components of a particular approach to coaching. Below, I illustrate both uses through stylized vignettes inspired by the coaching literature.

**Coaching Moves in Research**

Rebecca is an education researcher whose work focuses on coaching. Recently, she’s become especially interested how coaches discuss their observations of teachers’ lessons during coaching conversations. In partnership with a local school district, Rebecca identifies several experienced coaches who are regarded as highly effective and obtains consent to record several coaching sessions from each coach. Rebecca also identifies several less experienced coaches whose coaching skills are still developing. After transcribing these recordings, Rebecca uses the backward facing moves (Tables 1 and 2) as a coding scheme to code the transcriptions.

In analyzing the coded data, Rebecca notices an interesting pattern in the moves used by the less experienced coaches, as compared with the more experienced coaches. First, Rebecca notices that more experienced coaches often described their observations of the connection between a particular cause and effect (TellBack: connection) and/or asked teachers to reflect on the link between a particular cause and effect in the lesson (AskBack: cause and effect). Less experienced coaches, on the other hand, rarely used these moves drawing teachers’ attention to the causal link between events. Less experienced coaches also tended to use a series of asking and backward facing moves to open the conversation about the teacher’s previous lesson and then shift to using a series of telling and backward facing moves. For example, the coach might begin by asking the teacher to reflect on the success of their lesson (AskBack: self-assessment), then ask the teacher to justify their reflections (AskBack: justification) or ask the teacher to recall a particular moment in the lesson (AskBack: noticing). Then, the coach might transition to explaining their understanding of the lesson by describing what they observed (TellBack: observation), providing positive praise (TellBack: positive evaluation), and identifying a moment in the lesson or element of the teacher’s instruction that was less successful (TellBack: observation, negative evaluation). More experienced coaches, on the other hand, tended to intersperse both asking and telling moves throughout the conversation, asking a question about the previous lesson, and responding with their own observations and interpretations before moving onto a second question.

In follow-up interviews with the coaches, Rebecca learns that all coaches were cognizant of following the school’s provided coaching protocol, but that more experienced coaches had tweaked their use of the protocol over time, as they observed how teachers reacted to different moves. More
experienced coaches typically described the desire to ensure that coaching conversations felt like a lively dialogue with the teacher as the key reason for interspersing asking and telling moves.

Interested in understanding how these different discourse patterns affect teacher development, Rebecca designs two follow-up experiments. In the first, half of the coaches are told to intersperse asking and telling moves and the other half are told to first use a series of asking moves and then shift to a series of telling moves. In the second, half of the coaches are told to make sure to use the cause & effect and connection moves, and the other half are told to avoid those moves. For each experiment, Rebecca compares teacher observation scores across the two coach groups. Rebecca also uses the coaching moves taxonomy to code transcripts from a subset of the conversations conducted as part of the experiment to confirm that coaches complied with their assigned protocol.

**Coaching Moves in Practice**

Lacy is a full-time middle school literacy coach. Recently, she has noticed that one teacher she works with, Sarah, has seemed resistant during coaching conversations (Jacobs et al., 2018). When Lacy identifies an instructional challenge or suggests something she can change in the next lesson, Sarah tends to push back, offering alternative interpretations of the instructional challenge and offering reasons why Lacy’s suggestions won’t work (Ippolito, 2010). The conversations always seem to end with Lacy imploring Sarah to at least “try out” what she suggested and Sarah reluctantly agreeing. Lacy knows that little progress will be made if Sarah and Lacy can’t establish agreed-upon goals for instructional improvement (Kochmanski, 2020), but she’s not sure how to establish those goals with Sarah. At her next meeting with the principal, Lacy describes this challenge and asks for advice. The principal introduces Lacy to a toolkit of coaching moves and asks Lacy to spend some time reflecting on what kinds of moves she uses with Sarah and then pick a few new moves to try out.

As Lacy looks through the different moves and thinks about her previous conversations with Sarah, she realizes that she primarily uses TellBack and TellForward moves, providing few opportunities for Sarah to express and process her own ideas. Lacy often begins the conversation by praising something about Sarah’s lesson (TellBack: positive evaluation, observation) and then describing a moment in the lesson where Sarah or her students encountered a challenge (TellBack: observation, interpretation, cause and effect, negative evaluation). Then, Lacy usually shifts to suggesting a change that Sarah can make to prevent this challenge in future lessons (TellForward: instructional strategy) and explaining why and how it will work (TellForward: student goal,
demonstration, challenge). Lacy wonders if it would help to start by soliciting Sarah’s views about her instructional challenges and how they might be addressed before offering her own ideas and suggestions. Looking at the AskForward (Table 3) and AskBack moves (Table 1) from the toolkit, Lacy decides to start the conversation using the AskBack: self-assessment move to ask Sarah to provide her own views about the key instructional challenges she’s facing before Lacy provides any feedback of her own. Lacy also decides to try eliciting Sarah’s views about her goals for improvement (AskForward: goal-setting) and offering Sarah an opportunity to share her own ideas about what specific strategies will help her reach these goals (AskForward: generation).

Discussion

Though coaching programs have demonstrated effects on teachers’ instruction and student learning (Kraft et al., 2018), they require a cadre of highly skilled coaches who can meet regularly with teachers. This makes coaching logistically complex and resource intensive, especially compared to more traditional forms of professional development (D. Knight, 2012). We need to provide coaches with a concrete understanding of effective coaching strategies to ensure that this commitment of resources will make a difference for students. This paper provides a key tool for addressing this challenge. To my knowledge, this is the first framework of coaching discourse that is applicable across coaching models and approaches, provides concrete and clear explanations of how coaches can use questions and feedback to support teacher development, and is grounded in the available empirical research.

In serving as a coding scheme for analyzing coaching dialogue, the taxonomy can support researchers in answering important qualitative and quantitative questions about coaching. For example, work is currently underway in collaboration with a methodologist to code coaching conversations, quantify variation in coaching discourse, and identify moves that predict improvements in teacher practice. We also plan to develop an automated approach for identifying moves in transcripts that will reduce coding costs and increase efficiency. Because the moves are of a small grain size and defined by low inference structural features, they are likely easier to automate than high-inference frameworks like teacher observation rubrics.

In providing a quantitative method of describing coaching discourse at scale, the coaching moves taxonomy will allow researchers to systematically investigate both the causes and effects of coaches’ discourse strategies to answer questions such as: what discourse strategies help facilitate improvements in teacher instruction? What supports help coaches learn to skillfully use evidence-based discourse practices? And what hiring processes help administrators select skilled coaches?
Furthermore, as more studies using the coaching moves taxonomy are conducted, researchers will be able to aggregate findings through conceptual reviews and quantitative meta-analyses with relative ease. Finally, researchers may also qualitatively explore how and why coaches use specific moves and how teachers perceive them.

The taxonomy also provides a key tool for supporting coaches in their daily work. For coaches, the taxonomy may serve as a valuable framework for guiding professional practice. It can serve as a technical language for reflecting on patterns in their current practice, identifying ways to improve their practice (e.g. by trying out new moves or altering the order in which moves are used), and planning for future coaching conversations (Lofthouse & Hall, 2014). Those who support and develop coaches may also use the taxonomy to develop their own curricula for supporting coaching practice.

Finally, the taxonomy can help support coaches with incorporating existing and future research insights about the features of high-quality coaching into their daily practice. It is only when practitioners can understand the concrete implications of research for their daily practice that research can even begin to have an impact. Creating this understanding is infinitely easier when researchers and practitioners use the same language to describe what coaches do and say in their interactions with teachers. The coaching moves taxonomy can provide this shared language. In future work, I plan to share the taxonomy with coaching practitioners and empirically explore its affordances and constraints.

Of course, the taxonomy does not capture every variation or characteristic of coaching practice that may influence teacher learning and development. Future work can move beyond the frequency and patterns with which moves are used to understand how the quality of these moves may vary across contexts. Additional frameworks can also be created to capture additional elements of coaching practice, including tone-of-voice or coach planning. Finally, as our understanding of coaching practice and its effects on teachers develops, we may ultimately be able to create complex multi-layered frameworks that provide a vision of high-quality coaching practice and articulate the purposes behind different techniques (Boerst, et al., 2011; Grossman & Dean, 2019; Kennedy, 2016b).
References


23


<table>
<thead>
<tr>
<th>Move</th>
<th>Definition</th>
<th>Examples</th>
<th>Mechanisms</th>
<th>Relevant Literature</th>
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</table>
| Noticing   | questioning that only asks the teacher to recall information about themselves, a lesson, or their students based on prior experiences or their general familiarity with themselves or their students | • What did you notice about student x’s behavior?  
• How did student x respond to the prompt?  
• What did you do when…? | Analyze and reflect  
Job-embedded  
Active learning | Barnhart & van Es, 2015  
Collet, 2012  
Gibbons & Cobb, 2016  
Gregory et al., 2017  
Perkins, 1998  
Robertson et al., 2020 |
| Cause & Effect | questioning that explicitly asks the teacher to reflect on the effect(s) that stemmed from a particular cause and/or the cause(s) that led to a particular effect. | • How do you think giving wait time influenced students?  
• What did you notice about how that technique influenced students’ responses?  
• How did implementing the strategy we talked about last time help students? | Analyze and reflect  
Job-embedded  
Active learning  
Motivation: competence | Barnhart & van Es, 2015  
Collet, 2012  
Gibbons & Cobb, 2016  
Gibbons & Knapp, 2018  
Gregory et al., 2017  
Hiebert et al., 2007  
Hoffman et al., 2015  
Robertson et al., 2020 |
| Justification | questioning that explicitly prompts the teacher to provide evidence, rationale, and/or purpose for a claim, decision, or action they have made previously. | • Why did you choose to do x when student y was talking?  
• What were you hoping x move would accomplish | Analyze and reflect  
Job-embedded  
Active learning  
Motivation: autonomy | Barnhart & van Es, 2015  
Collet, 2012  
Gibbons & Cobb, 2016  
Gibbons & Knapp, 2018  
Hoffman et al., 2015  
Perkins, 1998 |
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<th>Move</th>
<th>Definition</th>
<th>Examples</th>
<th>Mechanisms</th>
<th>Relevant Literature</th>
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</table>
| Interpretation                | questioning that explicitly asks the teacher to develop a hypothesis, draw a conclusion, or make an inference about their students (e.g. a student’s motivations, rationale, understanding, or skill level), their instruction (e.g., or themselves (other than identifying a cause/effect or providing justification). | • What do you think y shows about this student’s understanding?  
• What do you think this lesson shows about your strengths as a teacher?  
• How well do you think that student understood the text? | Analyze and reflect  
Job-embedded  
Active learning  
Motivation: competence | Barnhart & van Es, 2015  
Collet, 2012  
Gibbons & Cobb, 2016  
Gibbons & Knapp, 2018  
Hoffman et al., 2015  
Perkins, 1998  
Robertson et al., 2020 |
| Vision                        | questions that explicitly prompt the teacher to articulate their goals or vision for a previous lesson or activity. This can include goals for students and for the teacher’s own instruction | • What did you hope would happen in today’s lesson?  
• What objectives did you hope students would learn?  
• What did you want students to understand about the text? | Analyze and reflect  
Active learning  
Job-embedded  
Motivation: autonomy  
Coherence & Alignment | Barnhart & van Es, 2015  
Collet, 2012  
Desimone & Pak, 2017  
Gibbons & Cobb, 2016  
Robertson et al., 2020 |
| Lessons Learned               | questioning that explicitly asks the teacher to identify something that they have learned from a prior experience or were working on implementing in the prior lesson | • What lessons have you learned about addressing kids’ challenging behavior so far?  
• What did the resource I asked you to read teach you about giving feedback? | Analyze and reflect  
Active learning  
Motivation: competence  
Coherence & Alignment | Desimone & Pak, 2017  
Perkins, 1998 |
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<th>Move</th>
<th>Definition</th>
<th>Examples</th>
<th>Mechanisms</th>
<th>Relevant Literature</th>
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<tbody>
<tr>
<td>Self-Assessment</td>
<td>questioning that asks the teacher to make a judgement about the success and quality of their own instructional practice</td>
<td>• How successful were you at x?</td>
<td>Analyze and reflect</td>
<td>Cohen et al., 2020</td>
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<td></td>
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<td>• What do you think you did well in terms of feedback?</td>
<td>Active learning</td>
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<td></td>
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<td></td>
<td>Motivation: competence</td>
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<td></td>
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<td>Motivation: autonomy</td>
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<td>Grading</td>
<td>questioning that ask the teacher to locate themselves within a particular performance framework</td>
<td>• Thinking about the Essential Practices/CLASS/other, how would you rate yourself for the domain of questioning?</td>
<td>Analyze and reflect</td>
<td>Gregory et al., 2017</td>
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<td></td>
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<td>Active learning</td>
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<td>Motivation: competence</td>
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<td>Motivation: autonomy</td>
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<td>• What language from the rubric do you think best describes your classroom management in today's lesson?</td>
<td>Coherence &amp; Alignment</td>
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</table>
Table 2. Telling & Backward-Facing (TellBack) Moves (Group 2)

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<th>Move</th>
<th>Definition</th>
<th>Examples</th>
<th>Mechanisms</th>
<th>Relevant Literature</th>
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</table>
| Observation | feedback that describes specific factual information about students, a lesson, or the teacher based on the coach’s observation of prior instruction or general familiarity with the students or teacher's instructional practice. | • I noticed that when student did x, you did y, and then z happened  
• I saw that you said “xyz” in response to the student’s question | Feedback  
Analyze & Reflect  
Job-embedded | Heineke, 2013  
Hoffman, 2015  
Robertson et al., 2020  
Russell et al., 2020 |
| Connection | feedback that explicitly discusses the connection between a particular cause and its effect | • Giving wait time allowed that student to process and generate a more complete answer  
• I think the students were distracted and had trouble paying attention today because Ethan was making a lot of noise | Feedback  
Analyze & Reflect  
Knowledge of content and pedagogy  
Job-embedded | Heineke, 2013  
Hiebert et al., 2007 |
| Justification | feedback where the coach makes an inference about the teacher’s rationale for a particular decision, claim, or action. The coach must explicitly use language to indicate that they are making an inference rather than making a simple statement of fact. | • I’m guessing that you asked Ethan to share a norm because you hoped it would refocus him to be on-task.  
• I think when you did that, you were trying to like bring it back to the rules and expectations a couple of times. | Feedback  
Analyze & Reflect  
Motivation: competence, relatedness  
Job-embedded | Robertson et al., 2020 |
| Interpretation | feedback in which the coach communicates a hypothesis, draws a conclusion, or makes an inference about something that does not meet | • When Ethan gave the answer that Lisa was excited, this suggested that Ethan didn’t fully understand the text  
• You seemed a little frustrated | Feedback  
Analyze & Reflect  
Motivation: competence, relatedness | Heineke, 2013  
Robertson et al., 2020 |
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<tr>
<th>Move</th>
<th>Definition</th>
<th>Examples</th>
<th>Mechanisms</th>
<th>Relevant Literature</th>
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<td></td>
<td>the criteria for Connection or Justification.</td>
<td></td>
<td>Knowledge of content and pedagogy</td>
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<td>Job-embedded</td>
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<td>Positive</td>
<td>feedback that communicates a positive judgment about a teacher's general</td>
<td>● You did a really great job managing student behavior</td>
<td>Feedback</td>
<td>Perkins, 1998</td>
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<td>Evaluation</td>
<td>skill as a teacher, specific elements of the teacher's practice, or</td>
<td></td>
<td>Motivation: competence</td>
<td>Collet, 2012</td>
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<td></td>
<td>provides a general affirmation of the teacher's instruction in a specific</td>
<td></td>
<td>Job-embedded</td>
<td>L’Allier et al., 2010</td>
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<td></td>
<td>lesson or time-period.</td>
<td></td>
<td></td>
<td>Robertson et al., 2020</td>
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<td></td>
<td>Sims et al., 2022</td>
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<tr>
<td>Negative</td>
<td>feedback that communicates a negative judgment about specific elements of</td>
<td>● You struggled to give descriptive feedback</td>
<td>Feedback</td>
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<td>Evaluation</td>
<td>the teacher's practice, about the teacher's instruction in a specific</td>
<td></td>
<td>Analyze &amp; Reflect</td>
<td>L’Allier et al., 2010</td>
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<td>lesson or time-period, or about a teacher's general weaknesses/problems.</td>
<td></td>
<td>Job-embedded</td>
<td>Perkins, 1998</td>
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<tr>
<td>Grading</td>
<td>feedback that explicitly makes a connection between the teacher’s</td>
<td>● On the district’s evaluation framework, I think you would score…</td>
<td>Feedback</td>
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<td></td>
<td>instructional practice and a specific framework of instructional practice</td>
<td></td>
<td>Analyze &amp; Reflect</td>
<td>Gregory et al., 2017</td>
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<td></td>
<td>or performance/evaluation rubric</td>
<td></td>
<td>Coherence &amp; Alignment</td>
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<td>Job-embedded</td>
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<td>Check-in</td>
<td>dialogue that references a topic of discussion from a previous coaching</td>
<td>● So last week we talked about implementing a new behavior management</td>
<td>Coherence &amp; Alignment</td>
<td>Desimone &amp; Pak, 2017</td>
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<td></td>
<td>conversation or professional development activity.</td>
<td>strategy</td>
<td></td>
<td>Sims et al., 2022</td>
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<tr>
<td>Move</td>
<td>Definition</td>
<td>Examples</td>
<td>Mechanisms</td>
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| Generation | questioning that prompts the teacher to generate or identify new ideas, action steps, or strategies that the teacher can use in future lessons, including to meet a pre-specified goal. | • What do you want to do differently next time?  
• What strategy could you use to better support student engagement next lesson? | Job-embedded  
Active-learning  
Motivation: autonomy  
Analyze & reflect | Barnhart & van Es, 2015  
Desimone & Pak, 2017  
Gibbons & Cobb, 2016  
Gibbons et al., 2018 |
| Goal-setting | questioning that prompts the teacher to identify a goal or outcome for their classroom or students for the teacher to work towards. | • What do you want students to learn in the next lesson?  
• What reading strategies do you want students to use when they read poetry? | Job-embedded  
Active-learning  
Motivation: autonomy  
Analyze & reflect | Desimone & Pak, 2017  
Perkins, 1998  
Teemant, 2014  
Russell et al., 2020 |
| Anticipation | questioning that explicitly prompts the teacher to elaborate on the consequences of an instructional strategy, action, or goal, including the importance or purpose, potential negative consequences, or challenges the teacher may face in using the strategy | • Why is asking for text evidence important?  
• Why is it important for students to use context clues when they read?  
• What do you think would happen if you never redirected misbehaviors? | Job-embedded  
Active-learning  
Analyze & reflect | Barnhart & van Es, 2015  
Gibbons et al., 2017 |
| Application | questioning that prompts the teacher to decide when and/or how to apply a specific instructional strategy. | • How will you apply this strategy to your lesson tomorrow?  
• How could you give that redirection in a more specific way next time? | Job-embedded  
Active-learning  
Analyze & reflect | Cohen et al., 2020 |
<table>
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<th>Definition</th>
<th>Examples</th>
<th>Mechanisms</th>
<th>Relevant Literature</th>
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</table>
| Check-for-Understanding  | questioning that checks for a teacher’s understanding of a pedagogical strategy or other professional concepts that the coach or teacher have been discussing. These questions tend to require the teacher to synthesize or apply previously discussed content in order to answer them. | • So, what would a non-example of a succinct redirection be?  
• What is the difference between the strategy I just suggested and the one that you used originally?  
• How would you summarize what wait time is? | Analyze & reflect  
Motivation: competency | Cohen et al., 2020 |
| Content Understanding    | questioning which supports the teacher in understanding the details of specific subject-matter content | • What paragraph in the text allows you to make that conclusion?  
• What is the correct answer to that math problem? | Job-embedded  
Active-learning  
Knowledge of content and pedagogy | Gibbons et al., 2017 |
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<th>Move</th>
<th>Definition</th>
<th>Examples</th>
<th>Mechanisms</th>
<th>Relevant Literature</th>
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</thead>
<tbody>
<tr>
<td>Reinforcement</td>
<td>feedback in which the coach explicitly reinforces that the teacher should, in future lessons, continue using a strategy that the teacher has already using</td>
<td>• I noticed that you did x in your last lesson, and I want you to keep doing that</td>
<td>Feedback</td>
<td>Collet, 2012</td>
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<td></td>
<td></td>
<td></td>
<td>Motivation: Autonomy</td>
<td>Robertson et al., 2020</td>
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<td>Sims et al., 2022</td>
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<td></td>
<td>Teemant, 2014</td>
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<td>Challenge</td>
<td>feedback that articulates a challenge or problem of teaching</td>
<td>• So sometimes students struggle to comprehend the text that they’re reading, they can make claims that sometimes can’t be supported with the text or may even be refuted with the text.</td>
<td>Knowledge of content and pedagogy</td>
<td>Cohen et al., 2020</td>
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<td>• Sometimes we as teachers aren’t aware of students’ emotions because they don’t know to communicate them</td>
<td>Feedback</td>
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<td></td>
<td>Analyze &amp; reflect</td>
<td></td>
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<tr>
<td>Student Goal</td>
<td>feedback that articulates an instructional goal(s) for students for future lessons</td>
<td>• We would like to increase positive task engagement. • I think it’s important that we focus on helping students with writing topic sentences.</td>
<td>Feedback</td>
<td>Teemant, 2014</td>
</tr>
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<td></td>
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<td></td>
<td>Knowledge of content and pedagogy</td>
<td>Russell et al., 2020</td>
</tr>
<tr>
<td>Instructional</td>
<td>feedback that explicitly proposes a new strategy that a teacher can or should use.</td>
<td>• Next time, I want you to work on being more specific with your redirections • One thing you can do is try to avoid using negative tone of voice and instead…</td>
<td>Feedback</td>
<td>Collet, 2012</td>
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<td>Strategy</td>
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<td>Knowledge of content and pedagogy</td>
<td>Heineke, 2013</td>
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<td>Robertson et al., 2020</td>
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<tr>
<td>Move</td>
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<td>Relevant Literature</td>
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</table>
| Demonstration    | dialogue where the coach illustrates *how* a specific instructional strategy can be used or implemented. This includes defining what a particular strategy means. | - A calm tone would sound like, “Ethan, please be quiet”.  
- Succinct redirections use as few words as possible | Modelling  
Knowledge of content and pedagogy | Collet, 2012  
Heineke, 2013  
Robertson et al., 2020  
Coburn & Woulfin, 2012  
Matsumura et al., 2013  
Robertson et al., 2020 |
| Implementation   | dialogue where the coach provides a specific direction or suggestion for how the teacher should handle a specific future situation or how they could have improved a specific prior situation. | - To remind yourself to use this new strategy, you should add a note to your lesson plan  
- I would like you try what we talked about in your lesson tomorrow | Feedback  
Deliberate Practice  
Knowledge of content and pedagogy | Sims et al., 2022 |
| Content Understanding | dialogue which supports the teacher in understanding the details of specific subject-matter content | - So, the text doesn’t explicitly give an answer, instead the reader has to make an inference  
- I actually had a different answer for that math problem… | Feedback  
Knowledge of content and pedagogy  
Modelling | Gibbons et al., 2017  
Matsumura et al., 2013 |
<table>
<thead>
<tr>
<th>Move</th>
<th>Definition</th>
<th>Mechanisms</th>
<th>Relevant Literature</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Practice</strong></td>
<td>dialogue where the coach initiates and facilitates a role-play activity or other approximation of practice.</td>
<td>Active-learning</td>
<td>Cohen et al., 2020</td>
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<td></td>
<td></td>
<td>Deliberate practice</td>
<td>Sims et al., 2022</td>
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<tr>
<td></td>
<td></td>
<td>Motivation: competence</td>
<td></td>
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<tr>
<td><strong>Data-Analysis</strong></td>
<td>reviewing student-created materials or summary data on student learning (e.g. test score data) to analyze student understanding, learning, strengths, weaknesses, needs, etc.</td>
<td>Active learning</td>
<td>Aguilar, 2013</td>
</tr>
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<td></td>
<td></td>
<td>Deliberate practice</td>
<td>Donegan et al., 2000</td>
</tr>
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<td></td>
<td></td>
<td>Motivation: autonomy</td>
<td>Downer et al., 2018</td>
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<td></td>
<td></td>
<td>Motivation: relatedness</td>
<td>Jewett &amp; McPhee, 2012</td>
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<td></td>
<td></td>
<td>Analyze and reflect</td>
<td>L'Allier et al, 2010</td>
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<td></td>
<td></td>
<td>Modelling</td>
<td>Marsh et al., 2015</td>
</tr>
<tr>
<td><strong>Co-planning</strong></td>
<td>reviewing curricular materials, state-standards, student-facing material (e.g. a book or problem-set) or other documents that teachers might reference</td>
<td>Active learning</td>
<td>Gibbons &amp; Cobb, 2016</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Deliberate practice</td>
<td>Gibbons et al., 2017</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Motivation: autonomy</td>
<td>Jewett &amp; McPhee, 2012</td>
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<td></td>
<td>Motivation: relatedness</td>
<td>Matsumura et al., 2013</td>
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<tr>
<td></td>
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<td>Analyze and reflect</td>
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<tr>
<td></td>
<td></td>
<td>Modelling</td>
<td></td>
</tr>
<tr>
<td><strong>Instructional</strong></td>
<td>reviewing a lesson plan, student-facing handout, video, or other artifact of the teacher’s or another person’s prior instruction (not including student-created materials)</td>
<td>Active learning</td>
<td>Gregory et al., 2017</td>
</tr>
<tr>
<td>Artifact</td>
<td></td>
<td>Motivation: autonomy</td>
<td>Jewett &amp; McPhee, 2012</td>
</tr>
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<td></td>
<td></td>
<td>Motivation: relatedness</td>
<td>Stanulis, 1994</td>
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<tr>
<td></td>
<td></td>
<td>Analyze and reflect</td>
<td>van der Linden et al., 2021</td>
</tr>
<tr>
<td><strong>Professional</strong></td>
<td>reviewing professional resources that provides general information about content or pedagogy, e.g. an article or video about strategies for teaching fractions.</td>
<td>Motivation: autonomy</td>
<td>Aguilar, 2013</td>
</tr>
<tr>
<td>Resource</td>
<td></td>
<td>Motivation: relatedness</td>
<td>Downer et al., 2018</td>
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<td></td>
<td></td>
<td>Analyze and reflect</td>
<td>Jewett &amp; McPhee, 2012</td>
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<td></td>
<td></td>
<td>Active learning</td>
<td>Vanderburg &amp; Stephens, 2009, 2010</td>
</tr>
<tr>
<td><strong>Instructional</strong></td>
<td>reviewing or explaining a specific rubric or framework of high-quality instruction</td>
<td>Coherence &amp; alignment</td>
<td>Allen et al., 2015</td>
</tr>
<tr>
<td>Rubric</td>
<td></td>
<td>Analyze and reflect</td>
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</table>

Note: these activities are often accompanied by moves from the first four categories that serve to facilitate teacher analysis and reflection about the activity or the materials used in the activity or provide feedback on the teachers’ engagement in the activity.
Table 6. Rapport Moves (Group 6)

<table>
<thead>
<tr>
<th>Move</th>
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</tr>
</thead>
</table>
| Sharing            | sharing personal information about the coach, asking about teacher personal information, or demonstrating a personal understanding of the teacher | • I love hiking too!  
• When I taught 8th grade, I really struggled with classroom management | Motivation: relatedness  
Motivation: competence | Collet, 2012  
Knight, 2007 |
| Assistance         | dialogue where the coach offers to provide specific assistance or provides an opportunity for the teacher to request specific assistance | • All right. Um, we have plenty of time. We can use it to think through or talk through anything on your mind.  
• I can do some research and get back to you about that  
• Is there any additional support you would like from me? | Motivation: relatedness | Collet, 2012  
L’Allier et al., 2010  
Lowenhaupt et al., 2014  
Perkins, 1998 |
| Encouragement      | dialogue where the coach expresses positive expectations for the teacher's future work | • you’ve got this!  
• you’re going to be great! | Motivation: relatedness  
Motivation: competence | Perkins, 1998  
Shernoff et al., 2015  
Teemant, 2014 |
| Normalizing        | dialogue where the coach communicates that facing challenges and struggles in teaching is normal | • Most teachers struggle with wait time | Motivation: relatedness  
Motivation: competence | Shernoff et al., 2015 |
| Permission         | dialogue where the coach asks the teacher for permission to do or say something. | • Is it okay if I give you some advice?  
• Is it okay if I ask you about that topic? | Motivation: relatedness  
Motivation: autonomy | L’Allier et al., 2010 |
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Empathy</td>
<td>dialogue in which the coach asks about, anticipates, or expresses an understanding of the teacher’s emotions or perspective.</td>
<td>• that must have been hard&lt;br&gt;• I know it can be very hard to keep track of everything that’s going on all at once</td>
<td>Motivation: relatedness&lt;br&gt;Job-embedded</td>
<td>Hunt, 2016&lt;br&gt;Shernoff et al., 2015&lt;br&gt;Teemant, 2014</td>
</tr>
<tr>
<td>Coaching Feedback</td>
<td>dialogue in which the coach invites the teacher to provide feedback on how the coaching session is going or how well the coach is meeting the teacher’s needs.</td>
<td>• How was this coaching session for you?&lt;br&gt;• Is there anything you’d like me to do differently in our next conversation?</td>
<td>Motivation: autonomy&lt;br&gt;Motivation: relatedness&lt;br&gt;Job-embedded</td>
<td>Perkins, 1998</td>
</tr>
<tr>
<td>Agenda-setting</td>
<td>dialogue where the coach previews things that will happen in future as part of the teacher’s participation in coaching or the purpose of coaching, a specific conversation, or a specific part of the conversation</td>
<td>• My goal as a coach is to be as helpful to you as possible&lt;br&gt;• First, we’ll review the video from your lesson, then we will…</td>
<td>Motivation: relatedness&lt;br&gt;Coherence &amp; Alignment&lt;br&gt;Job-embedded</td>
<td>Sims et al., 2022</td>
</tr>
<tr>
<td>Mirroring</td>
<td>repeating or rephrasing what a teacher just said in the previous turn of talk.</td>
<td>• Teacher: So with that one student I could just bring him right back to the…&lt;br&gt;• Coach: Bring him back to the text, so…</td>
<td>Motivation: relatedness</td>
<td>Aguilar, 2013&lt;br&gt;Perkins, 1998&lt;br&gt;Shernoff et al, 2015</td>
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<tr>
<td>Revoicing</td>
<td>dialogue in which the coach rephrases what the teacher has said in a recent turn-of-talk. This must move beyond mirroring to introduce different language or build on the teacher’s ideas.</td>
<td>• Teacher: So with that one student I could just bring him right back to the…&lt;br&gt;• Coach: Yes, you can focus his attention on the text by asking him to find text evidence to support his response.</td>
<td>Motivation: relatedness&lt;br&gt;Analyze &amp; reflect</td>
<td>Aguilar, 2013&lt;br&gt;Perkins, 1998&lt;br&gt;Shernoff et al, 2015</td>
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Figures

Figure 1. Summary of the prevailing theories about the mechanisms that explain how coaching conversations support teacher development.

Figure 2. Organization of the coaching moves taxonomy