

Professional Learning Offerings

School Year 2019–2020



Professional Learning Offerings

(School Year 2019–2020)

Amplify Science provides an array of professional support options that empower teachers to implement the program effectively with all types of learners. From the initial decision to adopt Amplify Science through all stages of implementation that follow, Amplify Science offers a range of valuable professional learning options, each led by Professional Learning Specialists who have trained with the program developers at UC Berkeley's Lawrence Hall of Science. Intensive on-site and/or remote trainings that cover both technology and content are available to ensure every educator feels well equipped and excited to use Amplify Science with their students.

Training & Foundations Workshop

Training & Foundations workshops are designed to familiarize teachers with Amplify Science, including its program features, instructional approach, and technical functionality. The workshops also cover the principles of three-dimensional instruction, as called for in the new science standards, as well as how Amplify Science incorporates those principles into curriculum. Attendees get hands-on experience with program materials and exemplar instructional sequences, preparing them to use the program effectively and begin the planning process for their own units.

Deep Dive & Strengthening Workshop

Deep Dive & Strengthening workshops enhance teacher understanding and application of Amplify Science features, enabling them to take their science instruction (and their students' learning!) to the next level. Going beyond the Training & Foundations offerings, Deep Dive & Strengthening workshops include: deep dives into teaching individual units, analyzing student assessment data to inform instruction, aiding students' ability to access complex texts, and engaging English learners in three-dimensional learning.

Instructional Practice & Job-Embedded Coaching Services

Instructional Practice & Job-Embedded Coaching Services immerse educators in methods and classroom protocols that promote ongoing improvement in teaching and learning. Services include classroom observations, side-by-side modeling in the classroom, and coaching aligned to research-based strategies. By the end of each session, teachers and instructional leaders are equipped to reflect on their own practices and build an understanding that enables them to help students think critically and independently.

Lawrence Hall of Science certified

Professional Learning Science Specialists

Our Professional Learning Specialists are highly experienced in the successful delivery of professional learning and job-embedded coaching services for teachers, administrators, and leaders at the district and state levels. Not only is each Specialist a former educator with years of classroom or administrative experience, they have also been trained by the Amplify Science authors themselves at UC Berkeley's Lawrence Hall of Science. Reference a small example of our talented specialist team below.

Team leaders:

I love seeing students in classrooms eager to continue questioning and to construct explanations of phenomena because they are seeing the relevance and importance of science to solve 21st-century problems.

—Erin, Louisiana

I love growing my career at Amplify Science, because ideas and possibilities are encouraged.

—JeMele, Nevada

An educator must love and reason in equal measure.

—Alestra, California

I love that Amplify Science supports teachers in creating an engaging learning environment that pushes students to think like scientists and engineers in order to solve problems that pertain to the world around them.

—Kati, Texas

Seeing students use Amplify curriculum to develop the academic and social skills they need to be successful science students well into high school and college is always rewarding!

—Alecia, New York

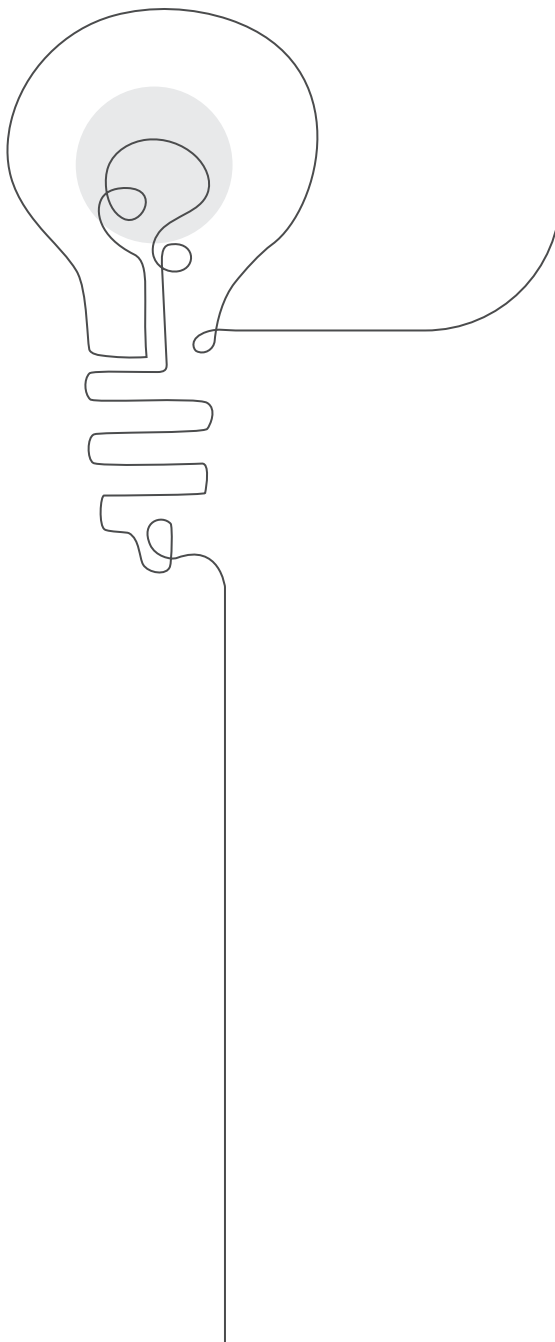


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Overview of Amplify Science Professional Learning Offerings

Amplify Science Training & Foundations

Teachers:

- Grade Band Orientation (1 or 2 consecutive days)
- Navigating Program Essentials
- Teaching with Technology
- Exploring Shifts to Next Generation Science Standards & 3-D Learning

Instructional Leaders:

- Administrators' Orientation

Deep Dive & Strengthening

Teachers

- Unit-Specific Workshop (1 or 2 consecutive days)
- Analyzing Student Assessment Data
- Accessing Complex Texts
- Engaging ELs in 3-D Learning
- Writing in Science

Instructional Leaders:

- Leading the Shifts of NGSS

Instructional Practice & Job-Embedded Coaching Services

Teachers

- Job-Embedded Coaching (JEC) Services: Teachers
- Guided Planning and Support
- Looking at Student Work

Instructional Leaders:

- Job-Embedded Coaching (JEC) Services: Instructional Leaders

Coaching Packages

Teachers

- Job Embedded Coaching (JEC) Package: Teachers
- Partner Success Package

Instructional Leaders:

- Job-Embedded Coaching (JEC) Package: Administrators
- Partner Success Package

Training & Foundations Workshops

Workshop (Teachers)	Audience	Duration	Logistics
Grade Band Orientation (2 days) Grade Band: K–1 / K–5 / 6–8 In this two-day session, participants explore Amplify Science with their K–5 or 6–8 colleagues. This overview of the Amplify Science curriculum will prepare teachers to implement Amplify Science in their classroom and help them get to know their first unit of instruction. Participants engage in a hands-on lesson, experience an exemplar instructional sequence, and reflect on the Amplify Science instructional approach in the context of the shift to the new science standards. They learn how to navigate the Teacher’s Guide and have an opportunity to explore key resources for planning and implementing the program in their classroom. Participants will leave with a deep understanding of the curriculum structure, embedded assessments, as well as approaches for differentiation. K–1 workshops will feature an exemplar from the grade 1 unit <i>Needs of Plants and Animals</i> K–5 workshops will feature an exemplar from the grade 3 unit <i>Balancing Forces</i>. 6–8 workshops will feature an exemplar from the unit <i>Force and Motion</i>. Participants will be able to: • Navigate the Amplify Science curriculum. • Locate key physical, print, and digital resources, including tools to assess student learning. • Prepare to teach a lesson. • Envision how to implement the pedagogical approach in the program in their own classrooms. • Identify how the multimodal approach supports students with gathering and making sense of evidence as they work to figure out phenomena. • Recognize how lessons engage students in the three dimensions of NGSS. • Identify the multiple types of assessments embedded within the Amplify Science curriculum. • Articulate how lesson activities support all students with building complex explanations. • Understand and plan for strategies to differentiate instruction and support all diverse learners (including English learners, students who need more support, and students who need more challenge).	• Teachers • Coaches	• Two 6-hour sessions	• On site, +30 ppl, 1 day

Workshop (Teachers)	Audience	Duration	Logistics
Grade Band Orientation (1 day) Grade Band: K–1 / K–5 / 6–8 In the single Grade Band orientation, teams of teachers engage in a model lesson, experience an exemplar instructional sequence, and reflect on the Amplify Science approach in the context of the shift to new science standards. Participants leave with a clear understanding of the Amplify Science approach to science teaching and learning, and the knowledge and skills to dive deeper in to their first unit. Participants will be able to: • Navigate the Amplify Science curriculum. • Locate key physical, print, and digital resources, including tools to assess student learning. • Prepare to teach a lesson. • Envision how to implement the pedagogical approach in the program in their own classrooms. • Identify how the multimodal approach supports students with gathering and making sense of evidence as they work to figure out phenomena. • Recognize how lessons engage students in the three dimensions of NGSS.	• Teachers • Coaches	• One 6-hour session	• On site, +30 ppl, 2 days
Navigating Program Essentials Grade Band: K–1 / K–5 / 6–8 In this half-day session, participants learn the essentials necessary to implement Amplify Science with success. Become familiar with the program essentials: navigating the digital Teacher's Guide essentials, Progress Build and assessment essentials, and Amplify Science approach essentials. Explore digital resources, in the context of seeing a sequence of instruction from the program. Participants leave able to access and navigate the curriculum resources. K–1 workshops will feature an exemplar from the grade 1 unit <i>Animal and Plant Defenses</i>. K–5 workshops will feature an exemplar from the grade 4 unit <i>Energy Conversions</i>. 6–8 workshops will feature an exemplar from the <i>Light Waves</i> unit. Participants will be able to: • Navigate the Amplify Science curriculum. • Understand the program's multimodal approach and instructional materials. • Identify the multiple types of assessments embedded within the Amplify Science curriculum. • Apply program essentials to prepare to teach an Amplify Science unit.	• Teachers • Coaches	• 3-hour session	• Remote, +15 ppl, ½ day, 1 day* • On site, +30 ppl, ½ day, +1 day*

* This three-hour offering can be repeated on the same day with different audiences to make one full-day session.

Workshop (Teachers)	Audience	Duration	Logistics
Teaching with Technology Grade Band: K–5 / 6–8 In this half-day session, participants will explore strategies to design classroom structures conducive to digital learning, to foster a culture of student ownership, and encourage tenets of digital citizenship. Topics include the instructional impact of technology-enhanced lessons on student learning; digitally-responsive classroom routines and management techniques; strategies for troubleshooting devices; and tips for successful implementation. Participants will be able to: • Create classroom structures and routines that support student learning when teaching with technology. • Describe benefits of digitally enhanced instruction for student learning. • Create a plan to support student use of the digital tools in the Amplify Science curriculum. • Identify strategies to address common challenges when teaching with technology.	• Teachers • Coaches	• 3-hour session	• Remote, +15 ppl, 1½ day, 1 day* • On site, +30 ppl, 1½ day, +1 day*
Exploring Shifts to Next Generation Science Standards & 3-D Learning Grade Band: K–5 / 6–8 In this half-day session, participants will learn to read and understand the structure of Next Generation Science Standards (NGSS). Participants will explore how the goals of the NGSS are evident in the Amplify Science curriculum. Through a variety of exemplars from K–8 units, participants will reflect on what is new and different about the NGSS, unpack the standards, and understand the role of three-dimensional learning. Participants will be able to: • Understand the new vision for science education represented by the NGSS. • Unpack a performance expectation and identify the Disciplinary Core Ideas, Science and Engineering Practices, and Crosscutting Concepts within that performance expectation. • Identify and explain three-dimensional learning in an Amplify Science lesson.	• Teachers • Coaches	• 3-hour session	• Remote, +15 ppl, 1½ day, 1 day* • On site, +30 ppl, 1½ day, +1 day*

* This three-hour offering can be repeated on the same day with different audiences to make one full-day session.

Workshop (Instructional Leaders)	Audience	Duration	Logistics
Administrators' Orientation Grade Band: K–5 / 6–8 In this half or full-day session, Administrators will become familiar with the principles of three-dimensional learning, and experience how the instructional approach of Amplify Science units embrace the shift of the Next Generation Science Standards (NGSS). Leaders will learn about the essential features and functionalities of Amplify Science, including technology, and materials. Participants will consider their essential role as administrators in supporting the transition to NGSS. Participants will be able to: • Recognize how lessons engage students in the three dimensions of NGSS. • Understand the effectiveness and implementation of the program's multimodal approach. • Become familiar with the “look fors” that administrators should see in an effective three-dimensional science classroom. • Discuss ways in which administrators can support the teaching of science in their schools.	• Administrators • Department chairs • TOSAs	• 3-hour session • 6-hour session	• On site, +30 ppl, 1½ day, +1 day

NOTE FOR ALL WORKSHOPS:

- Any single three-hour offering can be repeated on the same day with different audiences to make one full-day session.
- **On site** (up to 30 participants) | **Remote** (up to 15 participants)

Deep Dive & Strengthening Workshops

Workshop (Teachers)	Audience	Duration	Logistics
Unit-Specific Workshop (2 days) Grade Band: K–8 In this two-day workshop, participants will become familiar with one unit of the Amplify Science curriculum and deepen their understanding of grade-specific science content. Participants will explore how the unit supports three-dimensional learning and the investigation of phenomena to drive instruction, while taking a deeper dive into the Amplify Science assessment system. Participants will also explore different approaches for differentiation, and will leave with a plan for teaching the unit. To serve ongoing professional learning needs, multiple unit-specific workshops can also be packaged together, with delivery staggered across the school year. For example, one session can be delivered before school starts and other sessions are delivered as teachers embark on new units throughout the year. Participants will be able to: • Understand and explain what students learn in the unit, and how they learn it. • Navigate the Amplify Science curriculum. • Envision how to implement the pedagogical approach in the program in the classrooms. • Identify the multiple types of assessments embedded within the Amplify Science curriculum. • Prepare to teach a lesson. • Recognize how lessons engage students in the three dimensions of NGSS. • Locate key physical, print, and digital resources to support teaching and learning. • Understand how the program’s multimodal approach supports students with gathering and making sense of evidence as they work to figure out phenomena. • Articulate how lesson activities support all students with building complex explanations. • Understand and plan for strategies to differentiate instruction and support all diverse learners (including English learners, students who need more support, and students who need more challenge).	• Teachers • Coaches	• Two 6-hour sessions	• On site, +30 ppl, 1 day

Workshop (Teachers)	Audience	Duration	Logistics
Unit-Specific Workshop (1 day) Grade Band: K–5 / 6–8 Amplify Science approach and pedagogy through hands-on experiences with the unit's activities, followed by a reflection on the teaching and learning they saw. In doing so, teachers will become familiar with unit and program resources, including tools to assess student learning. Each session will fully prepare teachers to teach an Amplify Science unit at their grade level and engage their students in three-dimensional learning. To serve ongoing professional learning needs, multiple unit-specific workshops can also be packaged together, with delivery staggered across the school year. For example, one session can be delivered before school starts and other sessions are delivered as teachers embark on new units throughout the year. Participants will be able to: • Understand and explain what students learn in the unit, and how they learn it. • Navigate the Amplify Science curriculum. • Envision how to implement the pedagogical approach in the program in the classrooms. • Identify the multiple types of assessments embedded within the Amplify Science curriculum. • Prepare to teach a lesson. • Recognize how lessons engage students in the three dimensions of NGSS. • Locate key physical, print, and digital resources to support teaching and learning. • Understand how the program's multimodal approach supports students with gathering and making sense of evidence as they work to figure out phenomena.	• Teachers • Coaches	• 6-hour session	• On site, +30 ppl, 2 days
Analyzing Student Assessment Data Grade Band: K–5 / 6–8 Prerequisite: Amplify Science Orientation or Unit-Specific Workshop In this full-day session, teachers will take a deep dive into the Amplify Science formative assessment system. They will explore how they can use embedded formative assessments to provide them with credible, actionable, and timely diagnostic information about student progress toward the units' learning goals. Teachers will learn strategies for analyzing student work and assessment data, examine resources to help plan for tailoring instruction, and explore supports for differentiation to meet the diverse learning needs in their classrooms. Participants will be able to: • Examine and understand a unit's three-dimensional learning goals. • Plan for the strategic use of program assessment opportunities (e.g., Pre-Unit Assessments, On-the-Fly Assessments, Critical Juncture Assessments, and End-of-Unit Assessments). • Use formative assessment resources to analyze student responses and gauge progress towards the unit's learning goals. • Implement embedded differentiation strategies and supports.	• Teachers • Coaches	• 6-hour session	• On site, +30 ppl, 1 day

Workshop (Teachers)	Audience	Duration	Logistics
Accessing Complex Texts Grade Band: K–5 / 6–8 Prerequisite: Amplify Science Orientation or Unit-Specific Workshop In this full-day session, participants learn principles and strategies for engaging students in active reading of science text. Participants will reflect on the ways scientists and engineers engage with text and explore ways to enable all readers, including those who need more support and those who need additional challenge, to develop the language and access complex text. Participants will be able to: • Identify the different roles that text can play in figuring out science concepts. • Model and teach specific reading strategies. • Describe how the Amplify Science approach to reading supports students in engaging in science practices and making sense of science ideas.	• Teachers • Coaches	• 6-hour session	• On site, +30 ppl, 1 day
Writing in Science Grade Band: K–5 / 6–8 Prerequisite: Amplify Science Orientation or Unit-Specific Workshop In this workshop, participants will become familiar with the Amplify Science approach to writing. Participants will examine the different types of writing students engage in throughout their learning experiences and plan to use the embedded and additional supports to help their students develop their abilities to write in science. Participants will be able to: • Describe how the Amplify Science approach to writing supports students in developing their writing, engaging in science practices, and making sense of science ideas. • Be ready to teach specific writing activities in an Amplify Science unit	• Teachers • Coaches	• 6-hour session	• On site, +30 ppl, 1 day

Workshop (Teachers)	Audience	Duration	Logistics
Engaging English Learners in 3-D Learning Grade Band: K–5 / 6–8 Prerequisite: Amplify Science Orientation or Unit-Specific Workshop In this full-day session, participants explore strategies to support English learners’ ability to do, talk, read, write, visualize, and argue like scientists. By analyzing instructional sequences through an English learner lens, participants will deepen their knowledge of the critical role that language and literacy play in developing scientific understanding. Participants become familiar with the research-based principles that guided the creation of the supports and strategies in Amplify Science that aid students’ development of disciplinary literacy in science. Participants will be able to: • Articulate the critical role that language and literacy play in developing scientific understanding. • Identify strategies that support students’ disciplinary literacy and language development. • Recognize the embedded instructional design and identify additional supports for English Learners in an Amplify Science instructional sequence.	• Teachers • Coaches	• 6-hour session	• On site, +30 ppl, 1 day

Workshop (Instructional Leaders)	Audience	Duration	Logistics
Leading the Shifts of NGSS (Administrators) Grade Band: K–5 / 6–8 Prerequisite: Administrator's Orientation In this half- or full-day session, instructional leaders will reflect on key implementation milestones as they continue to transition to meeting the performance expectations of the Next Generation Science Standards (NGSS). Participants learn more about supporting teams of teachers in effective use of the Amplify Science formative assessment system to gather evidence of student progress towards unit learning goals. Leaders will continue to build capacity in observing the teaching and learning instructional practices that embody the vision of the Next Generation Science Standards. Participants will be able to: • Unpack the NGSS's performance expectations. • Use a look-for tool to observe and analyze NGSS-aligned instruction. • Locate resources that help teams of teachers monitor progress of student learning. • Revise implementation goals and measures of success. Extend this session for teams of instructional leaders by engaging in a full-day follow-up Leadership Workshop to dive deeper into leading protocols for analyzing student work and how to support differentiation based on student data. Additional outcomes include: • Plan for the strategic use of program assessment opportunities. • Support teachers in using embedded differentiation strategies and supports.	• Administrators • Department chair • TOSAs	• 3-hour session • 6-hour session	• On site, 30 ppl, 1½ day, 1 day

NOTE FOR ALL WORKSHOPS:

- Any single three-hour offering can be repeated on the same day with different audiences to make one full-day session.
- **On site** (up to 30 participants) | **Remote** (up to 15 participants)

Instructional Practice Workshops & Job-Embedded Coaching Services

Workshop (Teachers)	Audience	Duration	Logistics
Job-Embedded Coaching (JEC) Services: Teachers Grade Band: K–8 Prerequisite: Amplify Science Orientation or Unit-Specific Workshop In this full-day session, collaborate with an Amplify Science Professional Learning Specialist in your classroom or Professional Learning Community (PLC). These protocol-driven coaching services are designed to help teachers make relevant connections between student learning outcomes and instructional implications. Using a Six-i coaching cycle, the Amplify Science Professional Learning Specialist provides teachers with ongoing support in the form of demonstrations, observations, and data analysis conversations. After each job-embedded coaching session, participants are expected to leave the session with focused feedback and/or exemplars targeted toward implementing the Amplify Science curriculum with student success in mind.	• Teachers • Coaches	• 6-hour session	• On site, +6 classrooms, 1 day
Guided Planning & Support Grade Band: K–8 Prerequisite: Amplify Science Orientation or Unit-Specific Workshop In this session, participants will receive side-by-side coaching supports from an Amplify Science Professional Learning Specialist who will guide them through an effective metacognitive protocol for lesson planning within their specific unit. Together the participants and the PLS will analyze the Amplify Science unit, Progress Builds, assessment resources, and relevant data to plan lessons that effectively leverage the use of curriculum resources and integrated modalities to expose and address diverse learner needs. Participants will engage in lesson sequences that enable the anticipation of misconceptions and differentiating needs. This works well in PLC settings! Participants will be able to: • Use data effectively to plan lessons within the unit. • Articulate the multiple modalities of learning within the unit. • Understand how unit assessments are used to guide planning and differentiation. • Apply metacognitive planning protocol to future planning. • Lead future unit planning sessions on campus within PLCs/grade-level teams	• Teachers • Coaches	• 3-hour session	• On site, +15 ppl, ½ day, +1 day* • Remote, +15 ppl, ½ day, +1 day*

* This three-hour offering can be repeated on the same day with different audiences to make one full-day session.

Workshop (Teachers)	Audience	Duration	Logistics
Looking at Student Work Grade Band: K–5 / 6–8 Prerequisite: Amplify Science Orientation or Unit-Specific Workshop In Teacher Collaboration and/or Professional Learning Community (PLC) settings, participants will engage in the inter-rater reliability process of scoring student work and calibrate ratings based on evidence of learning expectations, and make decisions based on data trends and instructional (horizontal and vertical) implications. Participants will be able to: • Use data effectively to plan lessons within the unit. • Use student work as a catalyst to differentiate. • Identify trends in student successes and challenges that inform instruction. • Look for evidence of student thinking and student misconceptions through written responses. • Utilize Looking at Student Work protocol to collaboratively define rigor with peers. • Engage in academic discourse with students through meaningful feedback.	• Teachers • Coaches	• 3-hour session	• On site, +15 ppl, ½ day, 1 day* • Remote, +15 ppl, ½ day, 1 day*
Workshop (Instructional Leaders)			
Job-Embedded Coaching (JEC): Administrators Grade Band: K–5 / 6–8 Prerequisite: Administrator’s Orientation In this full-day session, Instructional Leaders engage in facilitated Professional Learning Walks (PLW)—non-evaluative classroom observations of their Amplify Science classroom(s). Collaboratively analyze collected data in order to identify strengths and areas for growth specific to the implementation of Amplify Science. Using a Six-i coaching cycle, an Amplify Science Professional Learning Specialist will guide Instructional Leaders to craft a professional learning plan based on their analyses and reflection	• Teachers • Coaches	• 6-hour session	• On site, +15 ppl, 1 day

* This three-hour offering can be repeated on the same day with different audiences to make one full-day session.

Coaching Packages

Workshop (Teachers)	Audience	Duration	Logistics
Job-Embedded Coaching (JEC) Package: Teachers Strengthen your implementation of Amplify Science with four on-site coaching visits! Our Professional Learning Science Specialists are trained to listen, observe, and customize support based on each customer’s needs. This coaching package fosters reflection and data analysis, enhances strengths, and builds internal capacity through an evidence-based cycle of continuous improvement. Participants engage in Professional Learning Walks to order to support effective program implementation.	• Teachers • Coaches	• 6-hour sessions • 3-hour sessions	• + 15 ppl, 4 days onsite, 1½ day, remote
Partner Success Package: Teachers Our remote consultation services focus on building internal capacity in order to transfer learning to new situations. During our custom remote coaching sessions, our Professional Learning Specialists foster a relationship that spurs thinking in new ways, where reflection and creativity are sought and valued, dialogue is improved, strengths are enhanced, standards are held high, and language is respectful, clear, appreciative, and results-oriented. Instructional coaches offer support throughout our professional learning experiences, providing educators with opportunities to learn not just through discussion, but through observation and data collection. These customized remote sessions enable the collaborative status reporting and consultation on science curriculum delivery.	• Teachers • Coaches	• 90 minutes	• Remote, +15 ppl, 10 sessions

Workshop (Instructional Leaders)	Audience	Duration	Logistics
Job-Embedded Coaching (JEC) Package: Administrators Provide critical support for your implementation of Amplify Science with four on-site coaching visits! Our Professional Learning Science Specialists are trained to listen, observe, and customize support based on each customer's needs. This coaching package fosters reflection and data analysis, enhances strengths, and builds internal capacity through an evidence-based cycle of continuous improvement.	• Administrators • Department chairs • TOSAs	• 6-hour sessions • 3-hour sessions	• + 15 ppl, 4 days onsite, 1½ day, remote
Partner Success Package: Administrators In our remote consultative service offering, a Professional Learning Specialists will provide on-going consultative support focused on implementation goals and results. The Professional Learning Specialist will partner with the Instructional Leaders to engage in opportunities to reflect, analyze data, identify trends, and build on the strengths of implementation through an evidence-based cycle of continuous improvement. These customized remote sessions enable the collaborative status reporting and consultation on science curriculum delivery.	• Administrators • Department Chairs • TOSAs	• 90 minutes	• Remote, +15 ppl, 10 sessions

For more information on
Amplify Science, visit
amplify.com/science.

Amplify.



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HALL OF SCIENCE
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