Inputs

What do teachers and students do to effectively reinforce learning?

Teachers Create and Facilitate Opportunities to Practice and Reinforce Learning

- Create practice exercises to reinforce prior learning
- · Facilitate interactive and collaborative activities to engage the classroom in engaging practice experiences
- Deliver feedback on student work to support student learning and academic growth

Students Engage With Content and Actively Retrieve Prior Knowledge

- · Reinforce learning by engaging in practice exercises that require them to retrieve prior knowledge
- Collaborate with classmates to accomplish shared learning goals

Activities

How will Pear Practice support the process of building and reinforcing student learning?

Aiding in the Design of Impactful and Engaging Practice Sessions

Pear Practice enables teachers to...

- Reinforce lesson content by supporting the creation of customized practice sets that engage students in active retrieval practice.
- · Interleave different skills and levels of cognitive difficulty into student practice with a variety of question types.
- Engage students in the learning experience by incorporating research-backed gamification techniques, such as personal avatars, rewards, and XP bars.
- · Provide feedback in the flow of learning to support student progress.

Creating Space for Social Learning

Pear Practice supports social learning by...

- Providing an engaging environment for teachers to host collaborative learning sessions and for students to work together with their peers to achieve shared learning goals.
- Promoting a supportive learning environment amongst students through the use of interactive stickers and collaborative exercises.

Supporting Learning for Every Student

Pear Practice is committed to inclusivity and has been optimized for accessibility in the following ways:

- · Availability on mobile and desktop
- · Support for multiple languages
- · Fully screenreader accessible
- · Fully keyboard compatible

Academic Achievement

support effective instructional practices?

Outcomes

96.4% of teachers agree that Pear Practice improves student learning and mastery.*

Employing low stakes practice tests has been shown to result in significant learning gains over studying across ages, abilities, and disciplines.1

What does the research tell us about potential benefits of Pear Practice when it is used to

- With proper employment, retrieval practice tests can improve retention of knowledge, comprehension, and transfer of learning.^{1,2}
- · Interleaving practice of different skills has been shown to significantly improve student conceptual understanding of a topic and subsequent test performance.3
- · Pairing retrieval practice testing with feedback on correct answer choices has been shown to be a robustly effective strategy for improved academic performance.1
- Collaborative academic activities where peers work together in small groups have consistently been shown to have positive effects on academic achievement and cognitive outcomes (e.g., creative problem solving, knowledge retention) when individual group members maintain accountability for progress (e.g., individual testing).4

Engagement and Motivation

100% of teachers agree that Pear Practice helps them drive positive engagement with their students.*

- · Administering tasks at appropriate levels of cognitive difficulty for students has been shown to have positive effects on the maintenance of engagement and motivation in learning.5
- · Higher rates of effective feedback have been linked with increased engagement, time on task, and favorable classroom behavior.
- · The inclusion of gamified elements in digital educational platforms, including achievements and points earned were shown to increase engagement in the learning experience and subsequent test performance over non-gamified conditions. This effect was exemplified when a social element, including customizable avatars and spaces for peer interaction, was introduced.7
- Avatar customization features have additionally been connected to greater rates of student engagement and feelings of presence in the digital learning environment.8

Classroom Climate

92.9% of teachers agree that Pear Practice helps foster a positive and supportive community in their classrooms.*

- Experiencing support from student peers has been tied to increases in interest and engagement in the classroom culture.
- · Improvements in motivational outcomes such as positive attitudes towards school, persistence, sense of efficacy, and self-esteem have been shown to occur as a result of collaborative learning. 4

Equitable Learning

100% of teachers surveyed from Title-I schools agreed that Pear Practice helps foster a positive and supportive community in their classroom, with 9/10 (87.5%) strongly agreeing with this statement.*

· A focus on accessibility enables all students to engage in the learning experience. Recent reports indicate that: • Over ten percent of students enrolled in public elementary and secondary schools in 2018 were English language learners (ELL).9 • Eighty-five percent of underserved K-12 students have access to only one piece of technology at home, and it is most often a smartphone. 10 • . Three percent of children enrolled in American public schools were children served under the Individuals with Disabilities Education Act for visual impairment and language and speech impairment.9

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- *Information from the Outcomes column is a result of a survey held with educators in the Pear Practice Innovation Incubator, a community of educators who have partnered with Pear Practice to test and provide feedback on the product.