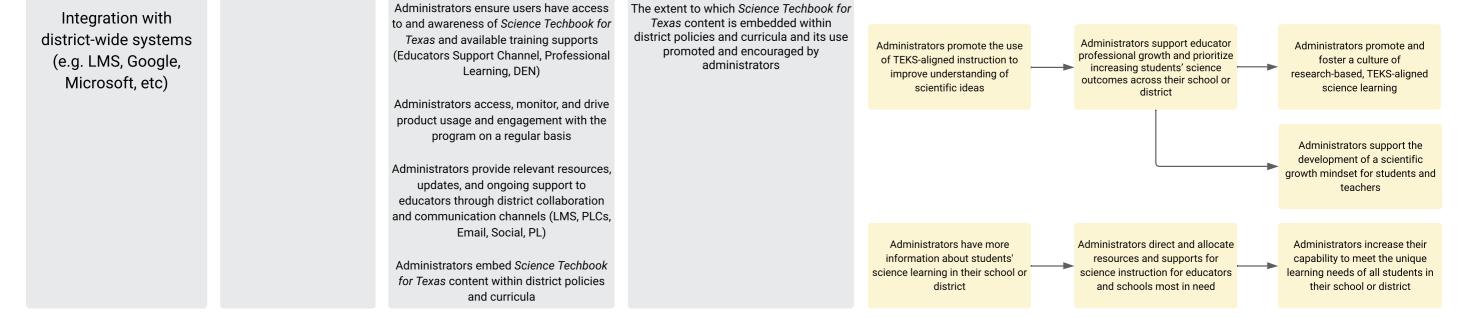


Problem Statement: Students should be at the center of learning science, which is grounded in building conceptual understanding across an intentional progression of ideas and skills/processes. Science education that does not provide enough opportunities for hands-on, interactive exploration of scientific concepts and phenomena often fails to engage students and educators and is less likely to improve students' science outcomes. Science Techbook for Texas provides highly engaging, TEKS-aligned, hands-on, rigorous, and research-based lessons and activities, including rich teacher supports and formative/summative assessment opportunities to monitor student learning.

lanuta	Derticipente				Outcomes		
Inputs What we invest:	Participants Who we reach:	Activities What we do:	Outputs Products of activities:	What changes or benefits result			
What we myest.	Who we reach.	Students access Science Techbook for Texas platform and/or print materials	FIGURES OF ACTIVITIES.	Short-term	Intermediate	Long-term	
		Students access hands-on and online content, resources, and activities within each lesson Students complete hands-on and online		Students increase interest in scientific learning	Students can communicate rich scientific explanations for real world observations, model scientific ideas, and design solutions	Students are better able to make evidence-based decisions in their personal, professional, social, and civic lives	
A TEKS-aligned core curriculum that allows educators and students to experience science phenomena through		lessons Students explore STEM career content and STEM project starters that connect them to the real world Students complete formative and		Students increase ability to design and carry out scientific — investigations	Students increase proficiency using scientific and engineering practices	Students increase self-efficacy and ownership of learning about the value of scientific reasoning, evidence-based thinking, and investigation	
hands-on activities, interactives, and engaging video and scientific-literacy lessons about real-world events or scientific		summative assessments to measure science learning and understanding Educators and administrators access platform usage, outcome, and progress data for students	Number of unique student, educator, and administrators who access <i>Science</i> <i>Techbook for Texas</i> platform and frequency of access Number and type of hands-on and online science content, resources, and activities		Students measurably improve understanding of science content for their grade level	Students demonstrate a growth mindset in terms of the skills and practices used to make sense of scientific ideas	
Professional learning (PL) and ongoing		Educators observe their peers' use of Science Techbook for Texas to reflect on best practices either directly or through PL conversations	accessed by students and educators Number and nature of hands-on and online lessons and assessments completed/assigned/administered				
support resources incl. access to Educator Supports Channel <sup>1</sup> and Discovery		Educators use resources and activities in classroom instruction Educators assign hands-on and online lessons for the whole group, small	Number and type of STEM career content and STEM project starters accessed and used Nature of feedback provided by students about relevancy and engagement in	Educators encourage student discussion and collaboration	Educators can provide students with timely feedback and differentiate lessons based on increased awareness of their students' science skills and knowledge	Educators increase capability to meet the unique learning needs of all their students	
Educator Network (DEN) <sup>2</sup> Accessibility features e.g., text to speech,	K–12 Students Educators	groups, or individual students Educators administer formative and summative assessments Educators access support resources e.g.,	science concepts Number and type of usage and outcome data by lesson, student, and school Frequency of educator peer observations Number and type of support resources	Educators have access to rich data about their students' science learning	Educators routinely address learner variability and increase differentiated practices and application in their classroom		
closed captioning, video transcripts and different Lexile levels, authentic Spanish translations, and translation support in 180+ languages	Administrators	professional learning, educator supports, prep materials, and standards alignment information Educators provide opportunities for students to participate in group discussions to promote scientific discourse and explanations	Frequency of discussion groups established between students and educators Number and type of professional learning webinars and events attended and completed	Educators increase participation in professional learning opportunities and communities	Educators develop and implement engaging and effective science lessons that incorporate research based strategies to increase the	Educators feel professionally supported and are more likely to coach others in science instruction	
Support via a district communication toolkit, partner success team, and education support teams		Educators and administrators participate in site/district-led PL webinars and live events Educators and administrators participate in school-based professional learning community (PLC) teams <sup>3</sup>	Number and nature of PLC teams Number and nature of communication touchpoints between educators and administrators concerning <i>Science</i> <i>Techbook for Texas</i> implementation, updates, and professional learning support	Educators have access to rigorous, research-based science resources and digital tools that focus on TEKS-aligned instructional techniques	rigor of scientific discourse and scientific explanations in the classroom	Educators deepen scientific understanding by designing and delivering student-centered, TEKS-aligned lessons	



<sup>1</sup> The Educator Supports Channel is an online platform that provides school and district leaders with resources on how to share best practices for Discovery Education products/services and empower educators through professional learning <sup>2</sup> Discovery Educator Network (DEN) is a global online community that connects educators to teaching resources, learning opportunities, and professional peer networking. <sup>3</sup> Professional learning communities (PLCs) are an approach to school improvement where groups of educators and administrators work collaboratively at the school level to improve student outcomes.

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## Figure 1. Science Techbook for Texas Logic Model

