

Renaissance Learning, Inc.

Supplemental English Mathematics, 3 Freckle for Math, 3

Supplemental	9798998577215	Digital	Adaptive
MATERIAL TYPE	ISBN	FORMAT	ADAPTIVE/STATIC

Rating Overview

TEKS SCORE	TEKS BREAKOUTS	ERROR CORRECTIONS	SUITABILITY	SUITABILITY	PUBLIC FEEDBACK
	ATTEMPTED	(IMRA Reviewers)	NONCOMPLIANCE	EXCELLENCE	(COUNT)
72.88%	118	2	Flags Addressed	Not Applicable	0

Quality Rubric Section

RUBRIC SECTION	RAW SCORE	PERCENTAGE
1. Intentional Instructional Design	12 out of 21	57%
2. Progress Monitoring	17 out of 23	74%
3. Supports for All Learners	22 out of 37	59%
4. Depth and Coherence of Key Concepts	16 out of 16	100%
5. Balance of Conceptual and Procedural Understanding	32 out of 38	84%
6. <u>Productive Struggle</u>	19 out of 19	100%

Breakdown by Suitability Noncompliance and Excellence Categories

SUITABILITY NONCOMPLIANCE FLAGS BY CATEGORY	IMRA REVIEWERS	PUBLIC	Flags NOT Addressed by November Vote
1. Prohibition on Common Core	0	0	0
2. Alignment with Public Education's Constitutional Goal	0	0	0
3. Parental Rights and Responsibilities	1	0	0
4. Prohibition on Forced Political Activity	0	0	0
5. Protecting Children's Innocence	0	0	0
6. Promoting Sexual Risk Avoidance	0	0	0
7. Compliance with the Children's Internet Protection Act (CIPA)	1	0	0

SUITABILITY EXCELLENCE FLAGS BY CATEGORY	IMRA REVIEWERS
Category 2: Alignment with Public Education's Constitutional Goal	0
Category 6: Promoting Sexual Risk Avoidance	0

IMRA Quality Report

1. Intentional Instructional Design

Materials support educators in effective implementation through intentional course and lesson-level design.

1.1 Course-Level Design

GUIDANCE	SCORE SUMMARY	RAW SCORE
1.1a	The materials do not include an alignment guide outlining the ELPS, or a	3/5
	rationale for learning paths across grade levels.	3, 3
1.1b	All criteria for guidance met.	3/3
1.1c	All criteria for guidance met.	2/2
1.1d	The materials do not include a protocol, or guidance that supports	0/2
1.10	internalization of the lessons.	0/2
1.1e	The materials do not include guidance for instructional leaders to support	1/2
1.16	educators with implementing the materials as designed.	172
_	TOTAL	9/14

1.1a – Materials include an alignment guide outlining the TEKS, ELPS, and concepts covered, with a rationale for learning paths across grade levels (vertical alignment) and within the same grade level (horizontal alignment) as designed in the materials.

The instructional materials provide a structured and standards-based approach by outlining the Texas Essential Knowledge and Skills (TEKS), identifying the concepts covered, and offering a rationale for adaptive learning paths within the same grade level. The Freckle Teacher Dashboard includes a Standards tab where the TEKS are listed by strand and grade level, allowing teachers to locate and reference the standards easily. The materials also include a "Math Usage Recommendation" flyer that explains how the adaptive learning path adjusts based on student performance, supporting horizontal alignment by keeping students within their grade level while personalizing instruction. The materials do not include an alignment guide outlining the English Language Proficiency Standards (ELPS), or a rationale for how learning paths are designed to progress across grade levels (vertical alignment).

1.1b – Materials include an implementation guide with usage recommendations and strategies for effective educator use in various contexts, such as just-in-time supports, advanced learning, or as a course.

The materials include a "Math Usage Recommendations" flyer located within the Resources tab of the Freckle Teacher Dashboard. The flyer recommends that students in grades 3–12 complete 20 minutes of practice per day, two times per week. The "Freckle Flyer Usage Recommendations" PDF also explains the different online practice options such as Focus Skills Practice for students with Star Math assessment

scores. This guidance supports educators in planning consistent usage routines that adapt to student performance. Targeted Math Practice worksheets and instructional videos are available within each grade-level TEKS/topic page. These resources serve as strategies for educators to use in various instructional contexts, including just-in-time support. This allows teachers to provide timely, skill-specific interventions aligned to student needs.

1.1c - Materials include a TEKS correlation guide with recommended skill entry points based on diagnostic assessment results.

The materials include an Adaptive Math pathway that personalizes instruction based on diagnostic assessment results. Students are placed at their appropriate level, and instruction adjusts as they progress. Teachers have access to the "Math Levels" report, which provides student performance data by TEKS cluster, including Star Math scores. This supports teachers in identifying areas of need and monitoring progress toward mastery. While a standalone TEKS correlation guide is not provided, the Teacher Dashboard includes embedded TEKS-aligned data. Teachers can click on specific TEKS to view class-level proficiency, assign Targeted Practice, or generate differentiated worksheets.

1.1d - Materials include protocols with corresponding guidance for unit and lesson internalization.

The instructional materials partially support teacher planning and unit internalization of Inquiry Based Lessons. Freckle provides lesson overviews that outline the instructional context and purpose. For example, one IBL overview states, "In this lesson, students will use multiplication and division within 100 by following a town's emergency protocol during a rainstorm." This description helps teachers understand the broader instructional goals and real-world context of the lesson, which supports intentional planning and alignment with the focus TEKS. However, the materials lack a structured protocol to guide teachers in internalizing units or lessons. The instructional materials provide partial support for lesson internalization through structured daily objectives within the IBLs. Each IBL includes a clear description of the skill or concept addressed in the lesson. For example, Day 1 states, "Students will be able to use multiplication within 100 to solve word problems," with subsequent days building on this objective and culminating in a final project. These daily objectives offer a sequential breakdown of instructional goals, which supports teacher understanding of lesson progression and intent. However, the materials do not include a comprehensive, systematic internalization protocol or planning guide to ensure teachers deeply engage with the content and instructional strategies before delivery.

1.1e – Materials include resources and guidance for instructional leaders to support educators with implementing the materials as designed.

The materials include "Math Usage Recommendations" and Smart "Start Help" articles, which provide resources for instructional leaders to support educators with implementing the materials as designed. For example, the "Math Usage Recommendations" flyer outlines suggested usage by grade band, and the

"Smart Start Help" articles includes a 60-minute course with modules such as "What is Freckle?", platform tours, an implementation checklist, and a teacher's guide. Additionally, the Administrator Dashboard and Renaissance Next for Leaders provide tools to monitor student progress and performance across topics. The materials do not include guidance for instructional leaders to support educators with implementing the materials as designed. While tools such as the Administrator Dashboard offer data visibility, there is no evidence of structured guidance or protocols to help instructional leaders coach or support teachers in the implementation process.

1.2 Lesson-Level Design

GUIDANCE	SCORE SUMMARY	RAW SCORE
1.2a	This guidance is not applicable to the program.	N/A
	The materials do not include detailed overviews with learning objectives	
1.2b	aligned with the ELPS; the materials do not include assessment resources	3/5
	aligned with the ELPS.	
	The materials do not include family-facing materials in Spanish, and do not	
1.2c	provide actionable support for families to support student learning at	0/2
	home.	
_	TOTAL	3/7

1.2a – If designed to be static, materials include detailed lesson plans with learning objectives, teacher and student materials, lesson components with suggested timeframes, and assessment resources aligned with the TEKS and ELPS.

This guidance is not applicable because the program is not designed to be static.

1.2b – If designed to be adaptive, materials include detailed lesson overviews with learning objectives, lesson components with suggested timeframes, and assessment resources aligned with the TEKS and ELPS.

The materials include detailed overviews with learning objectives aligned with the TEKS, identifying key concepts covered and supporting instructional alignment. The adaptive platform identifies students who are struggling by standard and recommends when to assign prerequisite skills, Targeted Practice, or reassigning the standard. These features support student learning by aligning instruction to TEKS and providing clear objectives based on performance data. TEKS-aligned IBLs build conceptual understanding. These lessons include suggested time frames to help educators plan instruction and ensure adequate time is allocated for concept development. The materials include a variety of assessment resources, including Benchmark Assessments, Targeted Practice, and exit tickets, which are aligned to the TEKS. These assessments allow teachers to monitor student understanding and adjust instruction accordingly. The materials do not include detailed overviews or assessment resources that are aligned to the ELPS.

1.2c - Materials contain support for families in Spanish and English for each unit, with suggestions on supporting the progress of their student(s).

The materials include a "Family Letter" that is available only in English. The "Family Letter" provides families with general information about what students are currently working on, but it does not offer actionable strategies to support student learning at home.

2. Progress Monitoring

Materials support educators in effective implementation through frequent, strategic opportunities to monitor and respond to student progress.

2.1 Instructional Assessments

GUIDANCE	SCORE SUMMARY	RAW SCORE
2.1a	The materials do not include the definition of the types of instructional	1/2
2.10	assessments.	172
2.1b	The materials do not include guidance for the consistent administration of	1/2
2.10	instructional assessments.	172
	The materials do not include a calculator tool, or content and language	
2.1c	supports that can be enabled or disabled to support individual student	2/4
	needs.	
2.1d	All criteria for guidance met.	4/4
2.1e	All criteria for guidance met.	4/4
_	TOTAL	12/16

2.1a – Materials include the definition and intended purpose for the types of instructional assessments.

The materials include several assessment options for gathering student data and formative assessment. One assessment included in the materials is the Targeted Practice, which is a formative assessment used to monitor student understanding and adjust content complexity. Educators assign TEKS-aligned content by student and topic to support differentiated instruction. Another assessment option included in the materials is the Benchmark Assessments, which evaluate students' current level of understanding and guide instructional decisions.

2.1b – Materials include guidance to ensure consistent and accurate administration of instructional assessments.

The materials support accurate administration of instructional assessments by providing clear descriptions of assessment types and their intended purposes within the Math Content tab and Reports section. Teachers can access student performance data, including scores, time spent, and answer summaries, which helps ensure assessments measure what they are designed to assess. The materials support accurate measurement, but they do not define consistency in administration, such as suggested time limits or step-by-step procedures within the lesson or unit.

2.1c – Digital assessments include printable versions and accommodations, including text-to-speech, content and language supports, and calculators, that educators can enable or disable to support individual students.

The program offers accommodations, such as text-to-speech functionality for math practice (excluding Fact Practice). Both the Adaptive Math pathway and Targeted Math Practice are available in printable formats to support students who may struggle with digital content. While the materials support customization of assessments and provide guided practice, hints, and videos when students answer incorrectly, they do not include evidence of a calculator tool that can be enabled or disabled to support individual student needs. The materials include a language setting in the Roster section of the Teacher Dashboard that allows educators to mark students for language support, indicated by an ES icon. However, the materials do not include content and language supports, such as rephrasing complex sentences or defining unfamiliar words, that can be enabled or disabled to support individual students.

2.1d – Materials include diagnostic assessments with TEKS-aligned tasks or questions, including interactive item types with varying complexity levels.

The Freckle Math Practice Program includes diagnostic assessments with TEKS-aligned tasks and questions that incorporate multiple interactive item types and span varying levels of cognitive demand. Students engage with formats such as multiple choice, drag-and-drop, text entry, multiselect, and open-ended responses, which appear throughout the Targeted Practice section and Depth of Knowledge (DOK) Challenges. These assessments allow students to demonstrate understanding through more than two unique item types and reflect more than two levels of complexity. The Adaptive Math pathway functions as a diagnostic tool, adjusting in real time to identify mastery and learning gaps. This adaptive feature delivers differentiated, TEKS-aligned instruction and ensures students are assessed at appropriate levels of challenge. Teachers can preview and customize diagnostic items to tailor instruction and address student needs. The materials clearly describe how students interact with content and how teachers manage assessments, supporting instructional decision-making and aligning fully with the expectations of this indicator.

2.1e – Materials include a variety of formative assessments with TEKS-aligned tasks or questions, including interactive item types with varying complexity levels.

The *Freckle Math Practice Program* includes formative assessments with TEKS-aligned tasks and questions that incorporate multiple interactive item types and span varying levels of complexity. Students engage with formats such as multiple choice, drag-and-drop, text entry, multiselect, graphs, and table completion. These formats appear across Adaptive Practice, Targeted Practice, and Benchmark Assessments, allowing students to demonstrate understanding through diverse question types.

The DOK Challenges present real-world problem-solving tasks that reflect more than two levels of cognitive demand. These formative assessments support instructional decision-making by providing

nsight into student mastery of grade-level standards. Teachers can preview and customize questions efore assigning them, which supports differentiation and instructional flexibility.	

2.2 Data Analysis and Progress Monitoring

GUIDANCE	SCORE SUMMARY	RAW SCORE
2.2a	Materials do not include a rationale for each correct, or incorrect,	1/3
	response.	
2.2b	All criteria for guidance met.	1/1
2.2c	All criteria for guidance met.	2/2
2.2d	This guidance is not applicable to the program.	N/A
2.2e	All criteria for guidance met.	1/1
_	TOTAL	5/7

2.2a – Instructional assessments include scoring information and guidance for interpreting student performance, including rationale for each correct and incorrect response.

The materials provide scoring information and performance guidance through adaptive reports such as "Student Goal Setting," "Performance by Standard," and "Math Report Cards." These tools allow teachers to monitor student progress, identify mastery of math domains, and adjust instruction accordingly. The Teacher Dashboard displays immediate assessment results, including student accuracy and selected responses. It supports teachers in interpreting student performance by offering actionable next steps, such as reassigning standards, printing practice materials, or assigning benchmarks based on student outcomes. The materials do not include rationales for correct or incorrect responses. There is no answer key or embedded explanation that clarifies why an answer is correct or incorrect.

2.2b – Materials provide guidance for the use of included tasks and activities to respond to student trends in performance on assessments.

The Freckle Teacher Dashboard and Performance by Topic report identify trends in student performance such as frequently missed TEKS, and provide tools for reassigning targeted tasks to address those gaps. Adaptive pathways automatically adjust based on assessment results, guiding students through a recommended sequence of tasks aligned to their demonstrated needs. Assignment and assessment reports include direct links to follow-up actions such as reviewing missed questions, reassigning standards, or accessing IBLs, enabling teachers to respond precisely to student performance data.

2.2c – Materials include tools for teachers to track student progress and growth, and tools for students to track their own progress and growth.

The materials include real-time reports on the Teacher Home page, allowing educators to monitor student progress and growth without running manual reports. The Student Goal Setting report shows each student's goal and their progress status, supporting timely instructional decisions. Students can set and track their own goals using the Student Goal Setting feature, which includes visual progress bars and

weekly goal tracking. These tools help students reflect on their learning and take ownership of their progress. Adaptive Practice adjusts to each student's level, and visual indicators show their current standing within a domain. These features promote student engagement and support personal goal setting aligned to learning goals.

2.2d – If designed to be static, materials provide prompts and guidance to support educators in conducting frequent checks for understanding at key points throughout each lesson or activity.

This guidance is not applicable because the program is not designed to be static.

2.2e – If designed to be adaptive, materials provide frequent checks for understanding at key points throughout each lesson or activity.

The materials include Adaptive Practice that provides frequent checks for understanding throughout lessons. When students demonstrate mastery, defined as scoring 80 percent or higher, they move forward to the next level of content. When they struggle, the program automatically remediates and adjusts content to support learning, ensuring students receive Targeted Practice aligned to their needs. The materials include embedded checks for understanding throughout lessons, and the results are captured in real-time reports such as the Performance by Standard report. These reports allow teachers to monitor student progress on specific standards and adjust instruction accordingly, ensuring that misunderstandings are addressed promptly. Instructional supports are embedded in Guided Practice, offering step-by-step examples when students struggle with a concept. These supports help clarify misunderstandings and guide students toward correct solutions. IBLs include built-in opportunities for checking understanding through slideshows and student worksheets. These tools allow teachers to monitor comprehension and adjust instruction during the lesson.

3. Supports for All Learners

Materials support educators in reaching all learners through design focused on engagement, representation, and action/expression for learner variability.

3.1 Differentiation and Scaffolds

GUIDANCE	SCORE SUMMARY	RAW SCORE
3.1a	All criteria for guidance met.	1/1
	The materials do not include explicit guidance for pre-teaching academic	
3.1b	vocabulary; the materials do not include explicit guidance for pre-teaching	1/4
	supports or embedded supports for unfamiliar references.	
3.1c	All criteria for guidance met.	2/2
3.1d	The materials do not include a built-in calculator or content and language	1/3
3.1u	supports that educators can enable or disable.	1/3
3.1e	All criteria for guidance met.	2/2
_	TOTAL	7/12

3.1a – Materials include explicit educator guidance for lessons or activities scaffolded for students who have not yet reached proficiency in prerequisite or grade-level concepts and skills.

The Targeted Math Practice section of Freckle Math provides scaffolded support for grade 3 students who are not yet proficient in key math concepts. When a teacher selects a standard, the program identifies students who need additional support and recommends differentiated practice. These recommendations are visible in the Teacher Dashboard and may include prerequisite skills aligned to the selected standard. When a student struggles with a math concept during Targeted Math Practice, Freckle may offer a Guided Practice activity. This feature provides a step-by-step example of how to solve a problem similar to the one the student is working on. The student is prompted to answer questions at each step to promote comprehension and reinforce understanding. If a student answers a question incorrectly during Targeted Math Practice, Freckle automatically provides embedded supports tailored to the student's needs. These include hints, instructional videos, and Work With Me features that activate in real time to guide the student through a similar problem. This adaptive support helps reinforce understanding before the student moves on to more complex content. The Teacher Dashboard helps educators by identifying students who need additional support ("student could use more practice at this standard") and recommending differentiated practice, including prerequisite skills. Teachers can preview and assign supports like Guided Practice, instructional videos, and Work With Me features to provide timely remediation.

3.1b – Materials include explicit educator guidance for language supports, including preteaching and embedded supports for developing academic vocabulary and unfamiliar references in text.

The materials include embedded supports for developing academic vocabulary. Academic terms are underlined within student-facing content, and students can click on the terms to hear or view definitions during both Adaptive Practice and teacher-assigned practice. The materials do not provide pre-teaching supports for academic vocabulary. Unfamiliar references appear in the materials without teacher guidance to support student understanding.

3.1c – Materials include explicit educator guidance for enrichment and extension activities for students who have demonstrated proficiency in grade-level and above grade-level content and skills.

The materials include IBLs that provide opportunities for students to apply grade-level concepts through real-world projects. Each IBL includes teacher guidance such as warm-up questions, grouping strategies, and prompts to support student-designed research questions and cross-curricular exploration. After completing IBLs, students may explore related topics further with teacher support to deepen their understanding. These activities are designed for students who have demonstrated proficiency in grade-level content and skills. The adaptive platform allows students to access content above their current grade level based on performance, offering targeted and independent practice in higher-grade domains. The program provides explicit guidance to educators by explaining how student progress determines content level and offering tools such as performance dashboards, assignment suggestions, and domain mastery indicators. These features help teachers monitor student growth, assign appropriate challenges, and differentiate instruction to maintain engagement for advanced learners. Teachers can assign DOK Challenge questions that promote higher-order thinking and align with above-grade-level standards. Educator guidance includes using these challenges as discussion starters, formative assessments, or exit tickets, and encouraging student reflection and multiple solution strategies.

3.1d – Digital materials include accommodations, including text-to-speech, content and language supports, and calculators that educators can enable or disable to support individual students.

The materials include accommodations such as text-to-speech that educators can enable or disable to support individual students. In grades K–5, questions include audio that can be read aloud to students. Teachers can manage this setting through the roster or assignment settings. The materials do not include content and language supports that meet the definition of accommodations. While students can toggle between English and Spanish and access Spanish audio and navigation, these features are general accessibility tools and are not considered formal accommodations. The materials do not include a built-in calculator that educators can enable or disable.

3.1e – Materials include educator guidance on offering options and supports for students to demonstrate understanding of mathematical concepts in various ways, such as perform, express, and represent.

The materials provide options for students to demonstrate understanding through IBL slides and projects. These tasks allow students to perform hands-on problem-solving, express their thinking through verbal and written responses, and represent their understanding using visual tools such as graphs and diagrams. Students are given opportunities to choose how they engage with the content, and educators are supported with pacing guidance and suggested prompts to facilitate student exploration. The materials include Guided Practice supports that activate when students struggle during independent math practice. These supports offer scaffolded, step-by-step examples that mirror the problem at hand. Each step prompts students to respond to a guiding question, encouraging them to articulate their reasoning. Additionally, Guided Practice incorporates visual models and instructional supports, enabling students to demonstrate their understanding in multiple ways—through verbal explanation, written response, and visual representation—rather than simply receiving hints. The materials include Constructed Response and DOK tasks that offer students multiple ways to demonstrate understanding. These tasks allow students to choose how they express their reasoning, whether through written explanations, visual models, or real-world applications. Educator guidance supports differentiation by providing varied prompts and scaffolds, enabling students to apply concepts in new contexts while selecting the format that best represents their thinking.

3.2 Instructional Methods

GUIDANCE	SCORE SUMMARY	RAW SCORE
3.2a	All criteria for guidance met.	5/5
3.2b	This guidance is not applicable to the program.	N/A
3.2c	All criteria for guidance met.	3/3
3.2d	All criteria for guidance met.	2/2
3.2e	All criteria for guidance met.	2/2
_	TOTAL	12/12

3.2a – Materials include explicit (direct) prompts and guidance for educators to build knowledge by activating prior knowledge, anchoring big ideas, and highlighting and connecting key patterns, features, and relationships through multiple means of representation.

The grade 3 *Freckle Math* materials activate prior knowledge through the instructional videos. When students miss a question in the Targeted Practice or on their adaptive pathway, a math video or hint will appear, reminding them of previous learning that will support them in answering the current question. Students may also choose to receive a hint or click on the Teach Me button (when available) to seek help before missing a question.

The materials anchor big ideas in the instructional videos and hints. For example, when students are asked to determine the quotient of a division word problem, the hints remind students to split the array into groups with numbers from the problem and provide an example. For example, using $30 \div 6$, "If you have 30 blocks to split between 6 people, there would be 5 in each." Reminding students of the connection between equal groups and division anchors the concept of division for students and helps them develop a deeper understanding.

Each IBL in the program begins with a Number Talk, during which students are encouraged to mentally solve a math problem in as many ways as they can. Then, the teacher facilitates a debrief during which students share their strategies. Number Talks provide an opportunity to highlight and connect key patterns and relationships found in our number system.

IBLs such as Sal's Savory Sandwich Shop include opportunities for students to connect key patterns, features, and relationships by representing mathematical ideas in multiple ways. In this lesson, students are asked to represent \$4.50 in multiple ways using coins and bills. Discussion questions such as, "The way that . . . explained the solution caused me to change my thinking because . . ." encourage students to compare and evaluate solution strategies, which will further support the connection of key patterns, features, and relationships.

3.2b – If designed to be static, materials include educator guidance for effective lesson delivery and facilitation using various instructional approaches.

This guidance is not applicable because the program is not designed to be static.

3.2c – Materials include multi-tiered intervention methods for various types of practice and structures and educator guidance to support effective implementation.

Freckle Math includes multi-tiered intervention methods for various types of practice, including guided, independent, and collaborative. Students independently engage in Adaptive Practice and Focus Skills, receive step-by-step support through Guided Practice, and collaborate using Peer-to-Peer Math supports and IBLs. The materials support multiple instructional structures, including whole-group, small-group, and individual learning. Teachers can assign Targeted Practice to students, use Class Grouping Reports to form skill-based small groups, and provide adaptive printables for individual or small-group instruction when technology is limited. The platform provides educator guidance to support the effective implementation of interventions. Reports such as Performance by Topic and Class Grouping offer actionable insights, and help articles like, "How do students practice Focus Skills in Math and ELA?" confirm that the platform supports differentiated instruction and targeted assignments. IBLs combine teacher-led instruction with collaborative, project-based learning. These lessons, along with adaptive tools and printable resources, ensure that all students receive the support they need to progress toward mastery.

3.2d – Materials include enrichment and extension methods that support various forms of engagement, and guidance to support educators in effective implementation.

Freckle Math includes enrichment and extension methods through IBLs that promote real-world application of grade-level content. In the "Designing a City Zoo" lesson, students partition animals among zoos. Teacher prompts, inquiry sheets, and optional challenge questions for advanced learners guide students through the activities. The platform supports various forms of engagement, including independent, small-group, and collaborative learning. Students can explore advanced-grade-level content through Adaptive and Targeted Practice, while teachers can assign complex tasks or use completed work for error analysis and deeper discussion. Teachers receive implementation guidance through help articles such as "Using Freckle for Enrichment," which outlines how to use independent practice, Targeted Practice, IBLs, and DOK Challenges to extend learning. These resources support differentiation and promote deeper understanding for high-achieving students. Freckle allows flexible delivery, including printable and projectable formats for small-group instruction. Teachers can rotate students through techbased and print-based enrichment activities to meet diverse engagement needs.

3.2e – Materials include prompts and guidance to support educators in providing timely feedback during lesson delivery.

Freckle Math includes real-time dashboards and reports that allow educators to monitor student progress, accuracy, and pacing during assignments. Reports such as Performance by Topic, Student Math Levels, and Class Grouping help teachers identify which students are excelling or struggling. Reflection questions at the end of IBLs such as, "What was the most difficult part of today's inquiry?" offer informal opportunities for teachers to assess student understanding. Targeted Practice provides prompts and guidance for timely feedback such as hints, instructional videos, asking a peer who performed well for help, or using a step-by-step guided lesson for incorrectly answered questions.

3.3 Support for Emergent Bilingual Students

An emergent bilingual student is a student who is in the process of acquiring English and has another language as the primary language. The term emergent bilingual student replaced the term English learner in the Texas Education Code 29, Subchapter B after the September 1, 2021 update. Some instructional materials still use English language learner or English learner and these terms have been retained in direct quotations and titles.

GUIDANCE	SCORE SUMMARY	RAW SCORE
3.3a	This guidance is not applicable to the program.	N/A
3.3b	Materials do not include embedded linguistic accommodations that	0/4
5.50	support multiple levels of English-language proficiency.	0/4
3.3c	Materials do not include implementation guidance to support educators in	0/1
5.50	effectively using the materials in state-approved bilingual/ESL programs.	0/1
	Materials do not include embedded guidance to support emergent	
3.3d	bilingual students in developing academic vocabulary or making cross-	3/8
3.50	linguistic connections through oral or written discourse opportunities, nor	
	in building background knowledge through written discourse.	
3.3e	This guidance is not applicable to the program.	N/A
_	TOTAL	3/13

3.3a – If designed to be static, materials include educator guidance on providing and incorporating linguistic accommodations for all levels of language proficiency [as defined by the English Language Proficiency Standards (ELPS)], which are designed to engage students in using increasingly more academic language.

This guidance is not applicable because the program is not designed to be static.

3.3b – If designed to be adaptive, materials include embedded linguistic accommodations for all levels of language proficiency [as defined by the English Language Proficiency Standards (ELPS)], which are designed to engage students in using increasingly more academic language.

The *Freckle Math* program includes general instructional supports such as hints, videos, and guided practice examples that appear when students struggle during Adaptive Practice. A help icon in the student app provides access to additional examples, and a speaker icon reads word problems aloud. However, these supports are not differentiated for students at varying levels of English language proficiency. Academic vocabulary is underlined and clickable for definitions, but there is no evidence that these features are systematically designed to scaffold instruction based on language proficiency levels. Sentence stems and tips for emergent bilinguals are generic and repeated across lessons, without

variation or alignment to stages of language development. The materials do not demonstrate embedded, differentiated supports aligned to multiple levels of English language proficiency.

3.3c – Materials include implementation guidance to support educators in effectively using the materials in state-approved bilingual/ESL programs.

The materials do not include implementation guidance to support educators in using the program within state-approved bilingual or English as a Second Language (ESL) settings. While the teacher dashboard allows Spanish language settings and printable materials in English and Spanish, these features are not supported by instructional strategies or guidance aligned to bilingual or ESL models.

There is no evidence of embedded support such as language objectives, model-specific plans, or professional learning resources tailored to bilingual or ESL instruction.

3.3d – Materials include embedded guidance to support emergent bilingual students in developing academic vocabulary, increasing comprehension, building background knowledge, and making cross-linguistic connections through oral and written discourse.

Materials include embedded guided opportunities to support bilingual students in increasing comprehension through oral and written discourse. Educators implement IBLs in various classroom settings such as collaborative small groups for students who need to review a concept or advance to a new mathematics concept, according to the Help article, "How do I use inquiry based lessons in my classroom?" Furthermore, according to the Help article, "How does Freckle support English Language Learners (ELLs) and Spanish-speaking students?," the online materials respond to an individual student's abilities. The students use sentence starters such as, "I agree with . . . because . . ." to further increase comprehension during group problem-solving discussions and work.

Materials include embedded guided opportunities to support bilingual students in building background knowledge through oral discourse. Educators implement IBLs in various classroom settings such as collaborative small groups for students who need to review a concept or advance to a new mathematics concept. Thus, emergent bilingual students with similar language proficiency levels and math skills can be grouped to solve real-world problems. Students use oral discourse to build background knowledge during the Develop Question step of the lesson. Students develop questions or use the Suggested Questions slide to discuss prior knowledge and experiences.

IBLs offer guided opportunities for students to collaborate to solve word problems. The students are encouraged to use precise mathematical language when explaining their solution strategies to one another. The article in Help articles, "How do I use inquiry based lessons in my classroom?" guides the educator on whole-class discussions, and mixed groups, small groups, and centers collaboration. The progression of the IBL increases comprehension and builds background knowledge through oral discourse.

Materials do not include embedded guidance to support emergent bilingual students in developing academic vocabulary or making cross-linguistic connections through oral or written discourse opportunities, or in building background knowledge through written discourse.

3.3e – If designed for dual language immersion (DLI) programs, materials include resources that outline opportunities to address metalinguistic transfer from English to the partner language.

This guidance is not applicable because the program is not designed for dual language immersion (DLI) programs.

4. Depth and Coherence of Key Concepts

Materials are designed to meet the rigor of the standards while connecting concepts within and across grade levels/courses.

4.1 Depth of Key Concepts

GUIDANCE	SCORE SUMMARY	RAW SCORE
4.1a	All criteria for guidance met.	2/2
4.1b	All criteria for guidance met.	4/4
_	TOTAL	6/6

4.1a – Practice opportunities throughout learning pathways (including instructional assessments) require students to demonstrate depth of understanding aligned to the TEKS.

The *Freckle Math* platform embeds TEKS-aligned practice and assessment opportunities throughout learning pathways, including 10-question assignments, exit tickets, and mini-tickets. These tasks require students to demonstrate depth of understanding through interactive formats such as multiple choice, drag-and-drop, and constructed-response prompts. Benchmark assessments and DOK tasks assess students by individual TEKS strands and include conceptual, visual, and situational prompts. These assessments require students to apply knowledge and critical thinking to real-world, standards-aligned tasks. Teachers can assign practice manually or use the adaptive learning features that personalize instruction based on student performance data. The Adaptive and Targeted Math Practice pathways adjust to student proficiency levels and include tasks that require students to demonstrate depth of understanding aligned to the TEKS, supporting instructional decision-making and mastery of grade-level content.

4.1b – Questions and tasks, including enrichment and extension materials, increase in rigor and complexity, leading to grade-level and above grade-level proficiency in the mathematics TEKS.

Freckle Math provides an adaptive pathway that begins with a domain-specific pre-test and adjusts in real time based on student performance. As students demonstrate mastery, the system increases the rigor and complexity of questions, supporting progression toward and beyond grade-level proficiency in the TEKS. The Freckle Math platform includes DOK Challenges and enrichment tasks that target DOK 2 and DOK 3 levels. For example, students may be asked to solve multi-step word problems involving fractions (DOK 2) or justify their reasoning when comparing two different solution strategies (DOK 3). These tasks promote higher-order thinking and support students in developing conceptual understanding and application skills necessary for demonstrating grade-level proficiency in the TEKS. Instructional supports such as guided practice, hints, videos, and academic vocabulary are embedded throughout Adaptive and

Targeted Practice. These scaffolds help students access rigorous content and extend learning opportunities for students performing at or above grade level.	

4.2 Coherence of Key Concepts

GUIDANCE	SCORE SUMMARY	RAW SCORE
4.2a	All criteria for guidance met.	1/1
4.2b	All criteria for guidance met.	1/1
4.2c	All criteria for guidance met.	4/4
_	TOTAL	6/6

4.2a – Materials demonstrate coherence across concepts horizontally within the grade level by connecting patterns, big ideas, and relationships.

Freckle includes IBLs that promote horizontal coherence by connecting mathematical patterns and relationships across grade levels. In the "Disaster Relief After Hurricane Katrina" lesson, students use operations and data analysis to plan emergency response efforts, building on prior knowledge while preparing for more advanced problem-solving in later grades. Freckle's instructional videos and practice tasks reinforce previously taught skills such as the order of operations by revisiting them in new contexts. For example, students apply this concept when solving multi-step problems or evaluating expressions with parentheses and exponents, supporting horizontal coherence through repeated application and increasing complexity. Freckle supports differentiation by assigning prerequisite skill practice when students struggle with grade-level content. These assignments blend foundational and current-grade skills, allowing students to build necessary background knowledge while continuing with core instruction. This aligns with the indicator's focus on scaffolding and targeted support for all learners.

4.2b – Materials demonstrate coherence vertically across concepts and grade bands, including connections from grade K-6, by connecting patterns, big ideas, and relationships.

Freckle supports vertical coherence by assigning prerequisite skill practice and offering scaffolded IBLs. For example, in the grade 3 lesson "Designing a Zoo," students apply foundational skills in measurement and multiplication to solve real-world problems. These tasks build on earlier grade concepts while preparing students for more complex applications in later grades, ensuring targeted support and conceptual progression. When students begin learning multiplication and division, Freckle may assign practice on skip counting and repeated addition from grade 2. This helps students understand multiplication as groups of equal parts, reinforcing the conceptual foundation needed for fluency with basic facts. In the grade 3 IBL "Designing a Zoo," students begin by watching a video about zoo layouts and animal needs. The warm-up questions prompt them to recall skip counting and basic addition facts from grade 2, which they then apply to calculate enclosure sizes and animal groupings.

4.2c – Materials demonstrate coherence across lessons or activities by connecting students' prior knowledge of concepts and procedures to the mathematical concepts to be learned in the current grade level and future grade levels.

Freckle Math uses Adaptive Placement and fluency tools to connect grade 3 students' prior knowledge to current content. Each domain begins with a pre-test to ensure students start at the right level and build on what they already know. The program develops multiplication and division skills by linking them to repeated addition and skip counting. Students apply these strategies in multi-step problems using visual models and real-world contexts. Grade 3 IBLs such as "Designing a Zoo" prompt students to divide habitats and food among animals. These tasks help students interpret whole-number quotients and explain their reasoning using drawings and equations. Teacher prompts and extension tasks reinforce key grade 3 concepts across multiple lessons. Students revisit strategies in new contexts, supporting coherence within the grade level and deepening conceptual understanding.

4.3 Coherence and Variety of Practice

GUIDANCE	SCORE SUMMARY	RAW SCORE
4.3a	All criteria for guidance met.	2/2
4.3b	All criteria for guidance met.	2/2
_	TOTAL	4/4

4.3a - Materials provide spaced retrieval opportunities with previously learned skills and concepts across learning pathways.

Freckle Math promotes retention and coherence through Fact Practice and IBLs. Fact Practice builds fluency in all operations through ongoing, adaptive review. IBLs span multiple days, revisiting prior skills and culminating in projects that apply previously learned concepts, supporting spaced retrieval across learning pathways.

The platform's Adaptive and Targeted Practice features allow students to engage with prerequisite skills when needed. This supports spaced retrieval and reinforces prior learning by integrating it into current assignments.

4.3b - Materials provide interleaved practice opportunities with previously learned skills and concepts across learning pathways.

Freckle Math provides Adaptive Practice that presents a series of problems aligned to the same skill or topic, using varied formats such as visuals, diagrams, and constructed responses. This practice is available both through teacher assignment and student-driven progression. IBLs include a Daily Review component that revisits previously learned skills and concepts. These reviews support distributed practice by embedding retrieval opportunities across multiple days. While Adaptive Practice adjusts in rigor, it remains within the same domain. Interleaved practice was observed only in the Daily Review portion of IBLs, showing limited but intentional use of distributed practice strategies.

5. Balance of Conceptual and Procedural Understanding

Materials are designed to balance conceptual understanding, procedural skills, and fluency.

5.1 Development of Conceptual Understanding

GUIDANCE	SCORE SUMMARY	RAW SCORE
5.1a	All criteria for guidance met.	3/3
5.1b	All criteria for guidance met.	2/2
5.1c	All criteria for guidance met.	1/1
_	TOTAL	6/6

5.1a – Questions and tasks provide opportunities for students to interpret, analyze, and evaluate models and representations for mathematical concepts and situations.

The materials include IBLs that provide questions and tasks prompting students to interpret, analyze, and evaluate models and representations of mathematical concepts. These lessons are built around real-world scenarios and include graphs, charts, and data tables that students must work with and explain. In grade 3, the "Planning a School Garden" lesson presents students with a data table and area models to determine how many plants can fit in different garden plots. Students use multiplication and spatial reasoning to justify their planting plans, demonstrating their ability to interpret and analyze visual models. Students engage in DOK Challenges that include DOK 2 and DOK 3 questions, requiring them to analyze models and justify reasoning. For example, students may be asked to evaluate whether a drawn array is correct and explain why or why not. The Adaptive Math pathway presents students with models and representations tailored to their learning level, encouraging them to interpret and analyze mathematical ideas in context. Freckle's Targeted Practice and new question types (multiple-answer, type-in, drag-and-drop) allow students to demonstrate understanding in diverse ways, including through interaction with visual models and representations.

5.1b – Questions and tasks provide opportunities for students to create concrete models and pictorial representations to represent mathematical situations.

IBLs provide structured opportunities for students to create pictorial representations to model mathematical situations. For example, in the "Designing a City Zoo" lesson, students interpret whole-number quotients using visual models such as diagrams and drawings. The lesson encourages students to develop their own questions and collaborate to find solutions, reinforcing conceptual understanding through visual reasoning. Students represent mathematical situations throughout their adaptive pathway by creating concrete models using virtual manipulatives such as place value discs, color tiles, two-color counters, number bonds, and number lines.

5.1c – Questions and tasks provide opportunities for students to apply conceptual understanding to new problem situations and contexts.

The materials include IBLs that provide students with opportunities to apply conceptual understanding to new problem situations and contexts. These lessons are structured around real-world scenarios and encourage students to explore, collaborate, and reflect. In grade 3, the "Planning a School Garden" lesson requires students to apply their understanding of area and multiplication to determine how many plants can fit into a garden plot. This task challenges students to transfer their conceptual knowledge to a practical, unfamiliar context and explain their reasoning. Students engage in DOK Challenges that include DOK 2 and DOK 3 questions, which support the application of conceptual understanding to novel situations. These challenges begin with real-world scenarios and ask students to solve problems using reasoning and justification, such as evaluating whether a visual model accurately represents a multiplication situation. The Adaptive Math pathway presents students with tasks tailored to their learning level that require them to apply math concepts in new contexts. For example, students may solve word problems involving multiplication and division or compare quantities using number lines, reinforcing their conceptual understanding through application. Freckle's Targeted Practice and interactive question types (multiple-answer, type-in, drag-and-drop) provide students with varied opportunities to apply their understanding in different formats. These tasks reinforce conceptual understanding by requiring students to transfer knowledge to new and increasingly complex problem types.

5.2 Development of Fluency

GUIDANCE	SCORE SUMMARY	RAW SCORE
5.2a	All criteria for guidance met.	2/2
5.2b	All criteria for guidance met.	3/3
5.2c	All criteria for guidance met.	3/3
5.2d	All criteria for guidance met.	1/1
_	TOTAL	9/9

5.2a – Materials provide tasks that are designed to build student automaticity and fluency necessary to complete grade-level mathematical tasks.

Freckle Math provides Fact Practice assignments intentionally designed to build student fluency and automaticity. Students engage in untimed practice across all operations and progress by scoring 100 percent in three consecutive sessions, supporting repeated and accurate recall of math facts. The platform includes a "Fact Practice" report that tracks student performance by operation and accuracy. This allows teachers to monitor progress and ensure students are developing the automaticity needed to complete grade-level mathematical tasks. Teachers can assign Targeted Practice aligned to specific skills or standards. This helps students focus on essential grade-level content, and supports fluency by reinforcing repeated exposure to key concepts through intentional practice. Students receive real-time feedback during Fact Practice, which reinforces correct responses and supports quick, accurate recall. This immediate feedback loop is essential for developing both fluency and automaticity.

5.2b – Materials provide opportunities for students to practice the application of efficient, flexible, and accurate mathematical procedures throughout learning pathways.

Freckle Math provides Adaptive and Targeted Practice, which supports the development of efficient, flexible, and accurate mathematical procedures. Students receive guided support when they struggle, including worked examples and interactive steps that help them learn and apply procedures effectively. IBLs include Number Talks that prompt students to solve problems using multiple strategies. These opportunities encourage flexibility and efficiency by allowing students to explore different approaches and share their reasoning with peers. Teachers can assign practice by domain or standard, giving students repeated exposure to grade-level expectations. This supports procedural accuracy and efficiency through consistent practice and reinforcement. The platform provides immediate feedback during practice, helping students identify errors and try alternative strategies. This real-time guidance supports the development of accurate and flexible problem-solving skills.

5.2c – Materials provide opportunities for students to evaluate mathematical representations, models, strategies, and solutions for efficiency, flexibility, and accuracy throughout learning pathways.

Freckle Math provides opportunities for students to evaluate mathematical representations, models, strategies, and solutions through Adaptive and Targeted Practice. Students work independently within domains and use different methods and models to improve their efficiency and accuracy in problemsolving. Instructional videos available during independent practice demonstrate multiple strategies for solving problems. These videos help students evaluate and understand alternative approaches to mathematical tasks. IBLs include structured discussion prompts that guide students in evaluating peer solutions for accuracy, flexibility, and efficiency. Sentence starters such as, "I solved it differently than . . ." and "The way that . . . explained . . ." support reflective thinking and comparison of strategies. DOK Challenges require students to analyze and evaluate mathematical methods and representations. For example, students identify errors in a peer's solution and explain how to correct them, reinforcing their ability to assess the efficiency and accuracy of different approaches.

5.2d – Materials contain guidance to support students in selecting increasingly efficient approaches to solve mathematics problems.

Freckle Math guides students in selecting increasingly efficient approaches through DOK activities. These tasks present problems in multiple ways, encouraging students to compare strategies and refine their problem-solving methods. IBLs include structured opportunities for students to share and reflect on different strategies. For example, in the "Winter and Ice Snowfall" scenario, students discuss which strategies worked best and why, promoting strategic thinking and efficiency. Instructional videos and guided practice examples offer step-by-step support that helps students recognize and apply more efficient methods. Hints and walkthroughs embedded in practice activities reinforce this guidance during independent work. Group work and reflection prompts in IBLs encourage students to explain their thinking and evaluate the efficiency of their approaches. These discussions help students build confidence in selecting effective, and efficient strategies.

5.3 Balance of Conceptual Understanding and Procedural Fluency

GUIDANCE	SCORE SUMMARY	RAW SCORE
5.3a	Materials do not explicitly state how the conceptual or procedural emphasis of the TEKS is addressed.	0/2
5.3b	All criteria for guidance met.	3/3
5.3c	Materials do not include supports for students in defining and explaining concrete models to abstract concepts.	5/6
_	TOTAL	8/11

5.3a – Materials explicitly state how the conceptual and procedural emphasis of the TEKS are addressed.

The materials support conceptual understanding by providing virtual manipulatives and visual models within the digital platform. These tools help students explore mathematical ideas and build meaning. However, the materials do not explicitly explain how these tools connect to the conceptual emphasis of the TEKS. The materials support procedural understanding by offering repeated practice with efficient procedures and algorithms. Despite this, the lessons do not clearly articulate how this practice aligns with the procedural expectations of the TEKS or provide instructional guidance that clarifies the balance between conceptual and procedural learning.

5.3b – Questions and tasks provide opportunities for students to use concrete models, pictorial representations, and abstract models as required by the TEKS.

Across various grade levels and practice types, students consistently represent their thinking using abstract equations, pictorial strategies, and hands-on tools, supporting a full progression from concrete to abstract understanding.

In the DOK practice, students solve problems using visual models such as dividing snacks among groups and selecting equations that represent real-world scenarios. IBLs prompt students to create pictorial representations to explain their thinking such as dividing animals among zoos. These tasks support conceptual understanding through visual reasoning. The Adaptive Math Program includes tools like counters, number lines, and base-ten blocks, allowing students to engage with concrete models during problem-solving.

5.3c - Materials include supports for students in connecting, creating, defining, and explaining concrete and representational models to abstract (symbolic/numeric/algorithmic) concepts, as required by the TEKS.

The materials include supports for students to connect and create representational models to abstract mathematical concepts. In the grade 3 IBL "Professional Drag Racing," students create a number line and

plot fractions to represent distances, helping them connect visual models to symbolic representations. The DOK questions include visual representations of multiplication problems, such as baked goods, which students use to create and explain abstract equations. These tasks support defining and explaining representational models of abstract concepts. Instructional videos guide students in connecting and explaining number line representations of fractions, reinforcing the link between visual models and symbolic understanding. The materials do not include supports for students to define or explain their thinking when using concrete models to abstract concepts.

5.4 Development of Academic Mathematical Language

GUIDANCE	SCORE SUMMARY	RAW SCORE
5.4a	All criteria for guidance met.	1/1
5.4b	All criteria for guidance met.	2/2
5.4c	All criteria for guidance met.	1/1
5.4d	All criteria for guidance met.	2/2
5.4e	All criteria for guidance met.	2/2
_	TOTAL	8/8

5.4a – Materials provide opportunities for students to develop academic mathematical language using visuals, manipulatives, or other language development strategies.

Freckle's Adaptive Math pathway presents guided practice that includes hints, videos, and step-by-step examples. These supports define academic vocabulary such as numerator, denominator, unit fraction, and equivalent fractions, and provide visual representations like number lines and fraction models. In the "Professional Drag Racing" lesson, students use number lines to plot and label unit fractions and describe relationships between them using sentence stems. In the Freckle Student Application, students receive hints that include definitions and visuals of key terms, and virtual manipulatives help students model problem-solving strategies. In the "Professional Drag Racing" lesson, students use number lines to explore and apply academic vocabulary such as numerator, denominator, unit fraction, and equivalent fractions. The lesson slideshow includes structured sentence stems like, "I agree with . . . because . . . " and "I solved it differently because . . . " that support students in discussing mathematical relationships, articulating their reasoning, and engaging in collaborative problem-solving using precise mathematical language.

5.4b – Materials include embedded educator guidance to scaffold, support, and extend students' use of academic mathematical vocabulary in context when communicating with peers and educators.

IBL slides scaffold and support students' use of academic vocabulary by providing sentence stems for peer discussions. In Designing a Zoo, Day 1, the slides include sentence stems such as, "The way that . . . explained the solution caused me to change my thinking because . . ." and "I solved it differently because . . .," which teachers can use to prompt students to explain their reasoning, compare strategies, and respond to classmates using precise mathematical language. The Adaptive Math platform supports vocabulary development through guided practice. When students encounter key terms, they can click or hover to access definitions via text or audio, helping them understand and apply academic language in context.

Freckle's Guided Practice feature scaffolds and supports vocabulary use by walking students through step-by-step examples after incorrect responses. For example, a perimeter lesson defines the term, describes how to find it, and prompts students to identify it in a visual.

Daily routines such as think-pair-share and peer discussions are embedded in the lesson structure and provide repeated opportunities for students to use academic vocabulary in context. For example, after watching the lesson video or completing the inquiry sheet, students are prompted to discuss their thinking with a partner using sentence stems. These routines help reinforce precise mathematical language through structured peer communication.

5.4c – Materials include embedded guidance to support student application of appropriate mathematical language and academic vocabulary in discourse.

IBL slides scaffold and support students in applying academic vocabulary through structured written and verbal discourse. In "Designing a Zoo," students respond to prompts like, "What are we trying to answer?" and record their thinking before beginning the inquiry. The slideshow guides educators to prompt students to write and share their questions using mathematical language. Freckle lessons and Adaptive Practice support and extend vocabulary use by embedding sentence stems and interactive features. For example, teacher slides include prompts such as, "Explain how you solved the problem," "What strategy did you use?" and "Why does your answer make sense?" to guide students in using academic vocabulary during discussions. In guided practice, underlined terms like *diagram* allow students to click or hover to access definitions via text or audio, reinforcing precise mathematical language in context.

5.4d – Materials include embedded guidance to facilitate mathematical conversations allowing students to hear, refine, and use math language with peers.

IBL slides support students in hearing academic mathematical language through structured group discussions. In "Designing a Zoo" and "Passing a Bill into Law," students engage in peer conversations using sentence stems such as, "I agree with . . . because . . ." and "I solved it differently than . . . because . . ." Teacher-facing materials provide embedded guidance to facilitate mathematical conversations. Slides like "Group Spokesperson Presents Solution" prompt class discussions and model how students can listen to and respond to peers using academic vocabulary. While the materials support students in hearing and recognizing mathematical language during discourse, they do not include embedded guidance that helps students refine and use academic vocabulary in their own communication with peers and educators.

5.4e – Materials include embedded guidance to anticipate a variety of student answers including exemplar responses to questions and tasks, including guidance to support and/or redirect inaccurate student responses.

IBLs include daily solution sheets that provide exemplar student responses, visuals, and pictorial models. For example, in "Sal's Savory Sandwich Shop," students respond to questions about coin values and customer payments, with sample answers modeling accurate mathematical language and reasoning. The Adaptive Math platform supports and redirects inaccurate responses through embedded hints, videos, and tools. When students answer incorrectly, the system provides targeted feedback, such as guiding them to rethink a step or offering a visual explanation. *Freckle's* Guided Practice feature engages students in step-by-step examples when they struggle. These supports define key terms, model strategies, and prompt students to reflect on their understanding, helping them revise misconceptions in real time.

5.5 Process Standards Connection

GUIDANCE	SCORE SUMMARY	RAW SCORE
5.5a	All criteria for guidance met.	1/1
5.5b	The materials do not include a description of how process standards are incorporated and connected throughout the learning pathways.	0/2
5.5c	Materials do not include an overview of the TEKS process standards incorporated into each lesson.	0/1
_	TOTAL	1/4

5.5a - TEKS process standards are integrated appropriately into the materials.

In grade 3, the targeted DOK Practice presents a land-partitioning task that guides students through three follow-up questions. These questions require students to select tools, create visual representations, and communicate mathematical ideas, demonstrating alignment with TEKS process standards for tool selection, representation, and communication.

The IBLs include inquiry sheets that prompt students to analyze information, formulate plans, determine solutions, justify answers, and evaluate the reasonableness of their solutions. These steps align with the TEKS process standards for using a problem-solving model and justifying mathematical thinking.

The DOK Challenge titled "Perimeter of a Polygon" presents a real-world scenario in which a zookeeper calculates fencing needs. This task requires students to apply mathematics to everyday life and justify their reasoning, aligning with the TEKS process standards for real-world application and justification.

5.5b – Materials include a description of how process standards are incorporated and connected throughout the learning pathways.

The materials reference connected domains by identifying relationships between mathematical concepts across strands. For example, the platform includes a Help article titled "Connected Domains" that outlines how content areas relate to one another. However, the materials do not describe how the TEKS process standards are incorporated or connected throughout the learning pathways. There is no guidance showing how students are expected to apply process skills such as problem-solving, reasoning, or communication across lessons or units.

5.5c – Materials include an overview of the TEKS process standards incorporated into each lesson.

The lesson overview in the IBL materials describes the activity and lists the content standards from the TEKS. For example, in the "Winter Snowfall and Rain" lesson, the overview outlines the task students will complete; however, the materials do not include an overview of the TEKS process standards incorporated

into each lesson. Educators are not provided with guidance on how process skills such as problemsolving, reasoning, or communication are addressed within the lesson structure.	

6. Productive Struggle

Materials support students in applying disciplinary practices to productive problem-solving, including explaining and revising their thinking.

6.1 Student Self-Efficacy

GUIDANCE	SCORE SUMMARY	RAW SCORE
6.1a	All criteria for guidance met.	3/3
6.1b	All criteria for guidance met.	3/3
6.1c	All criteria for guidance met.	3/3
_	TOTAL	9/9

6.1a – Materials provide opportunities for students to think mathematically, persevere through solving problems, and to make sense of mathematics.

Targeted Math assignments allow teachers to select specific TEKS and assign ten-question sets that include multi-step word problems, giving students opportunities to practice perseverance and apply mathematical reasoning within a focused skill area. IBLs present real-world scenarios, such as planning a cross-country road trip or opening a clothing line, which require students to make sense of math concepts, revise their strategies, and engage in discussion. In the "Super Splitz" lesson, students compare fractional amounts of pizza toppings, like 3/6 pepperoni vs. 4/8 sausage, to determine equivalence and reason about size. This activity supports conceptual understanding of fractions through a meaningful, real-world context. Adaptive Math Practice provides guided support through features like Guided Practice, Hints, and automated feedback that addresses misconceptions. For example, when students answer incorrectly, Freckle offers hints and step-by-step examples, such as visual models or prompts to rethink their approach and help them re-engage with the problem. These supports are embedded in the student dashboard and encourage productive struggle without giving away the answer.

6.1b - Materials support students in understanding, explaining, and justifying that there can be multiple ways to solve problems and complete tasks.

Freckle's Adaptive Practice supports students in understanding that there can be multiple ways to solve problems. The platform presents varied question types and encourages students to approach problems from different angles. Scaffolding and targeted hints guide students through alternate strategies without giving away answers, helping them explore and justify different solution paths. The "Observing the Night Sky" lesson includes a Group Spokesperson activity in which students explain how they arrived at their solution and participate in a class discussion using sentence stems such as, "I solved it differently than . . . because . . ." and "The way that . . . explained the solution caused me to change my thinking because . . ." This structure supports students in understanding, explaining, and justifying that there can be multiple ways to solve a problem. Number Talks, embedded in daily review slides, prompt students to solve problems like 237 – 149 using multiple strategies. Teachers are guided to ask questions such as, "Did

anyone use a different method?" and "Which strategy seems the easiest to you?" to foster justification and discussion.

6.1c – Materials are designed to require students to make sense of mathematics through multiple opportunities for students to do, write about, and discuss math with peers and/or educators.

In the "Designing a Zoo" IBL, students work in groups to solve real-world problems by drawing pictures, using strategies, and responding to prompts such as, "What are we trying to answer?" before beginning the inquiry. These tasks require students to actively engage with the math content, make sense of the problem, and collaborate with peers to develop and communicate solutions. The structure of the lesson supports students in thinking critically and visually representing their reasoning as part of the problem-solving process. The IBL slideshow provides sentence starters that guide oral discussion, including "I agree with . . . because . . ." and "The way that . . . explained the solution caused me to change my thinking because . . ." These prompts support students in explaining their reasoning and engaging in respectful dialogue.

Students are expected to follow group norms such as, "Everyone participates," "One person speaks at a time," and "Be nice, compliment each other!" These norms help students collaborate effectively while solving problems and sharing strategies. Teacher-led lessons include collaborative routines that prompt students to talk about their thinking and share strategies with peers. Prompts such as, "Still stuck? Ask a friend!" encourage students to engage in math conversations, seek help from classmates, and explain their reasoning aloud. These routines support students in developing mathematical understanding through peer interaction and guided discussion.

6.2 Facilitating Productive Struggle

GUIDANCE	SCORE SUMMARY	RAW SCORE
6.2a	All criteria for guidance met.	6/6
6.2b	All criteria for guidance met.	4/4
_	TOTAL	10/10

6.2a – Materials support educators in guiding students to share and reflect on their problem-solving approaches, including explanations, arguments, and justifications.

The materials include a group sharing model in the IBLs where one group presents their solution and explains how they arrived at it. In the Grade 3 IBL "Flying Kites," students share their thinking during the Group Spokesperson Presents Solution section. Sentence starters such as, "Our group solved it this way because . . . " and "We used this strategy because . . . " support students in clearly articulating and defending their mathematical reasoning during presentations. The Group Spokesperson Presents Solution section of the IBL slideshow prompts students to explain their thinking and respond to peer strategies. Sentence starters such as, "I agree with . . . because . . . " and "The way that . . . explained the solution caused me to change my thinking because . . . " guide students in reflecting on and critiquing the strategies presented by others. These discussions provide opportunities for students to share explanations, make arguments, and justify their solutions in a collaborative setting. Reflection questions at the end of each IBL slideshow guide students to think critically about their own problem-solving process. Prompts such as, "What did you do best at during today's inquiry?" and "If you could start over, what would you do differently?" help students explain and justify their approaches while considering alternative strategies. Number Talks include teacher prompts such as, "Can someone explain . . . strategy?" and "Do you agree with that method? Why or why not?" These routines encourage students to reflect on and critique peer strategies, justify their own thinking, and engage in mathematical argumentation.

6.2b – Materials include prompts and guidance to support educators in providing explanatory feedback based on student responses and anticipated misconceptions.

The *Freckle* student app provides embedded prompts and guidance that respond directly to student answers. For example, when a student selects an incorrect response, the app offers a hint, such as a reteach video or a Teach Me Quick explanation, to help the student understand the concept and correct their thinking. This immediate support helps students reflect on their errors and build a deeper understanding of the math content.

Freckle's Guided Practice feature presents worked examples that break down problems into manageable steps. For instance, when students struggle with Adaptive or Targeted Math Practice, the platform shows a step-by-step solution that models how to approach the problem. This allows students to build confidence and learn how to solve similar problems independently. The materials anticipate common

misconceptions and provide targeted support. For example, when students confuse area with perimeter, teacher-facing prompts such as, "Does this measure area or the distance around?" help educators guide students toward accurate reasoning.

Freckle includes visual cues and icons that offer immediate support. Students can click on a light bulb for hints, a question mark for guided practice, or a video camera for skill videos. These tools provide feedback based on both student responses and anticipated misconceptions, helping students view mistakes as learning opportunities.