

REMOTE LEARNING FEATURES REVIEW

Precalculus with Limits: A Graphing Approach, TX ED, Student Edition
National Geographic Learning/Cengage

Section I. Remote Learning Features

Digital and printable resources

Student materials include both digital and printable resources.

Resource	Available Digitally	Printable
Student edition	Yes	Yes
Student workbook	Yes	Yes
Student worksheets	Yes	Yes
Texts / books	Yes	Yes
Subject specific tools	Yes	Yes
Activities	Yes	Yes
Quizzes	Yes	Yes
Tests	Yes	Yes

Printable resources can be printed by select pages and select components. Some resources on the Teacher Site, such as test bank items and PowerPoint presentations can be edited prior to printing.

Tools for special populations

The digital student material contains the following tools for special populations:

- Study guides/student note taking guides

Study guides, also identified as Student note taking guides, are provided for each chapter and are designed to review or reteach. They include vocabulary practice, review of key concepts, and additional practice.

Connection between print and digital components

Content in print and digital components is similar, but the digital version contains additional features and tools including video lectures, class forums, and private messaging.

The digital material provides remote students with a learning experience that is equitable to that of in-person students by providing lectures that are similar to what they would receive in a face-to-face classroom and communication tools to encourage collaboration.

Completion, submission, and review of work

Students can complete and submit work online through the product platform, and teachers can review students' work and provide feedback through the product platform. The platform requires student rostering.

The material is compatible with the following learning management systems:

- Blackboard
- Canvas
- Brightspace
- Moodle
- Schoology

Teachers must load content into the district LMS.

Grade-level differences

Precalculus with Limits: A Graphing Approach is a stand-alone course; therefore, the criteria for grade-level differences does not apply.

Section II: Synchronous Instruction

Teacher guidance for synchronous instruction

Teacher guidance does not address how to use this material in a synchronous learning environment.

Supports for student-to-student interaction

The following features in the material support student-to-student interaction:

- Class Forum

- Private messaging
- Group projects

The *WebAssign* platform allows teachers to monitor and limit student-to-student interaction. Teachers may enable and disable private messaging, or they may set the system to forward private messages to email. The *Class Forum* may be active or locked at the discretion of the teacher. Group projects for most chapters are included on the Larson Calculus site.

Supports for teacher-to-student and student-to-teacher interaction

The *WebAssign* platform supports teacher-to-student and student-to-teacher interaction through the *Class Forum* and private messaging.

Section III: Asynchronous Instruction

Support for asynchronous/independent learning

The following features in the material support concept development:

- Feedback capabilities
- Videos
- Audio files
- Sample work and/or examples
- Simulations and/or animations
- Games
- Guided activities/problems

Each lesson provides students with multiple attempts to select the correct answer and displays correct/incorrect answers, tips for students, demonstrations and guided practice. When multiple attempts are provided, the material repeats existing questions in the same order. Videos occur in most chapters/units and deliver instruction using recorded teacher lectures, computer-narrated slideshows, and narrated examples. The speed of videos and audio files in the material cannot be adjusted, but the speed of videos on the Larson Calculus site can be adjusted to accommodate differences in students' auditory processing abilities. Sample work and/or examples are provided with practice problems in most chapters/units. The Larson Calculus site includes simulations and/or animations to support student expectations in each chapter.

Section IV. Progress Monitoring Features

Progress monitoring by teachers, parents/guardians, and students

The material includes the following features and reports to help students, parents/guardians, and teachers monitor student progress:

Features	Students (self-monitoring)	Families	Teachers
Usage	Yes	Yes	Yes
Time on task	Yes	Yes	Yes
Assignment completion	Yes	Yes	Yes
Standards mastery	—	—	—
Skills mastery	—	—	—
Automatic scoring	Yes	Yes	Yes

The material provides scoring reports by individual students and by class.

Integration of progress monitoring tools

The program's progress monitoring features can be integrated with any district progress monitoring system that supports IMS Basic LTI Standards. Grade pass-back is supported on the same systems.

Assessments

All assessments can be completed remotely through the material's platform.

Teacher guidance/recommendations

The material's progress monitoring features do not provide guidance or recommendations to help teachers support individual students.

Section V. Usability for Families

Sign-on process

Students and teachers sign on using unique usernames and passwords.

Built-in support for students and families

The following embedded supports help students and parents/guardians understand the material's content:

- Mobile device application
- Live chat feature
- *WebAssign* Student Help
- Frequently asked questions
- Online tutors / on-call live teachers

These supports are available in English.

The material provides supports for special populations through the Larson Calculus site. This site provides solutions and examples in Spanish. The same videos available on the National Geographic Cengage site are available on the Larson Calculus site. The speed of videos on the Larson Calculus site can be adjusted to accommodate differences in students' auditory processing abilities. Closed captioning in English is provided on the Larson Calculus site.

Districts will not incur additional costs for these supports.

Section VI. Training and Support for Teachers

Teacher training and support

The following embedded resources assist teachers in using the material for remote learning:

- Teacher guide
- Help center with frequently asked questions/ how-to instructions

Teacher training and supports are provided in English.

Section VII. Addresses Unfinished Learning

Vertical alignment of standards and content

A pacing guide that outlines the recommended sequence and time requirements for each lesson segment is included in the lesson plans.

Guidance on how to address missed learning

On the Larson Calculus site, assessments, including pre and post-tests, identify missed learning in the current unit and chapter.

Texas Essential Knowledge and Skills (TEKS) aligned tutoring resources

Video-based tutorials are provided on the Larson Calculus site. The Larson Calculus site provides TEKS-aligned tutoring resources in the form of solution videos. Videos are provided in English and Spanish.