Free Online Textbook and Learning Options using the CK-12 Platform

Wednesday, August 28, 2019 | 12:00 p.m.

Carl Haley, CK-12 Foundation Neda Anasseri, OTAN



tinyurl.com/ck12otan





A simple, powerful, learning platform.

The CK-12 Foundation is a leading non-profit organization dedicated to improving student learning by increasing access to educational materials through the FlexBook® platform and concept-based modalities.







Global Usage



Here's how you could be using CK-12



FlexBooks Individual lessons **Concept Pages**



Adaptive Practice Assignments & Reports



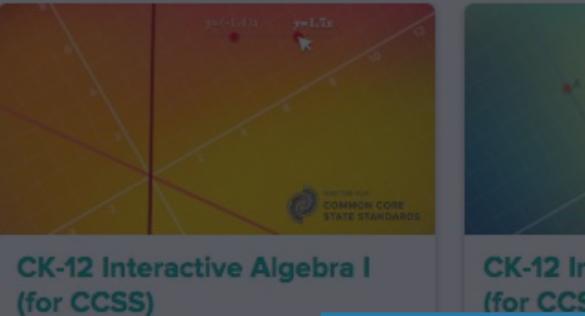


Customizing Curriculum









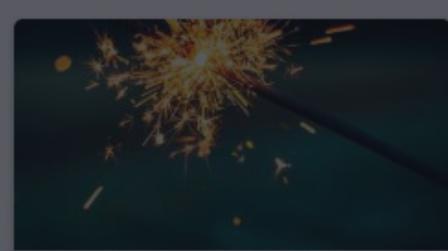


(for CCSS)

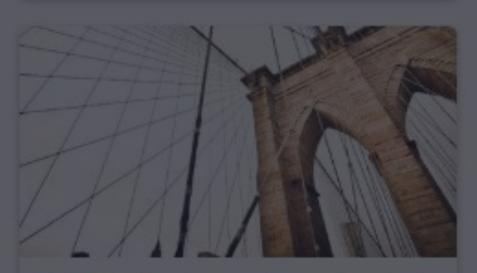
Flex Books & Concepts

CK-12 Earth Science for Middle School

CK-12 Life Science for Middle School



CK-12 Chemistry for High School



CK-12 Interactive Physics for High School

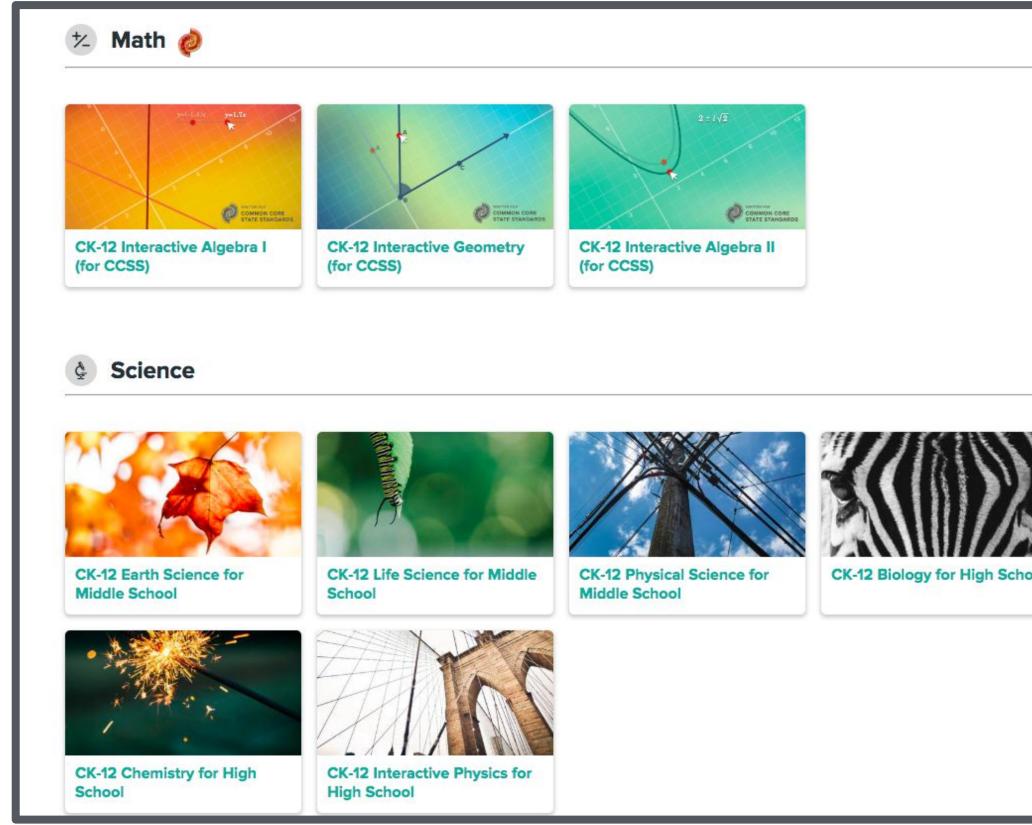
CK-12 Physical Science for Middle School

CK-12 Biology for High School





FlexBooks® 2.0





- Interactive Algebra I & II, plus Geometry; Interactive MS Math coming this spring
- Biology, Chemistry & Physics; Life, Earth & **Physical Science**
- Ready-to-use, but also customizable
- Related modalities are easily accessible
- More interactivity, such as Simulations, PLIX Interactives, and practice questions within the text itself







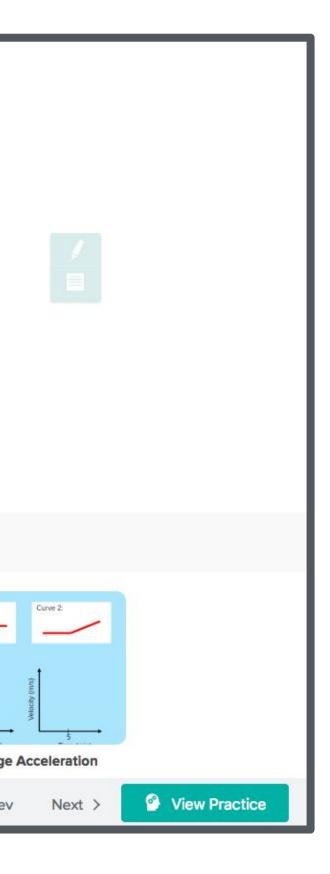




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	[Figure 1]			
	To escape from Earth's orbit, space shuttles called the shuttle's <i>escape velocity</i> .	such as the Atlantis shown here m	ust accelerate to 28,968 kilometers p	er <mark>hour,</mark>
	Average Acceleration			
	An object whose velocity is changing is said velocity, or the change in velocity per unit the over it is read as average – so a-bar is avera	me. The units of acceleration are di		Very Sol the Construction
	Examples			
	Example 1			
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Options Related Highlig	ghts Resources Settings			<



FlexBooks® 2.0 - Modalities



- Adaptive Practice is included for each lesson
- Related learning modalities include:
 - PLIX Interactives
 - Physics and Chemistry
 - Simulations
 - Videos
 - Real World Applications
 - Study Guides

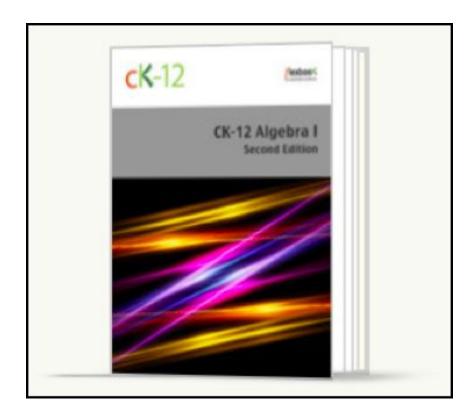






The FlexBook® 2.0 Platform

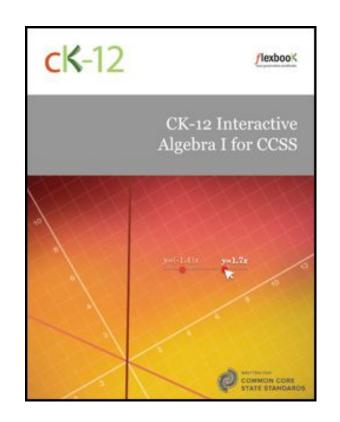
Original FlexBooks®



• Lessons with videos

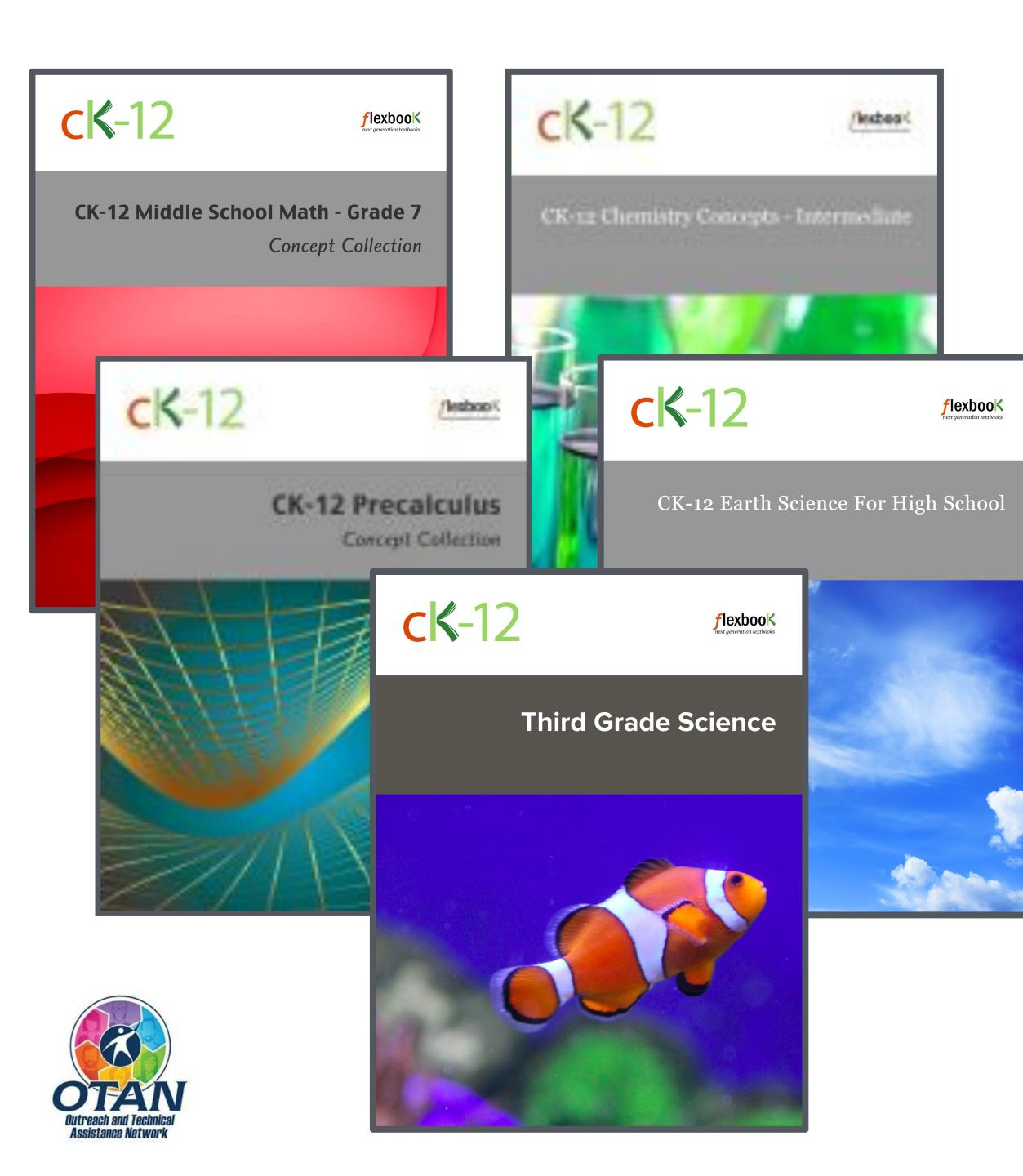


New FlexBooks® 2.0



Best of CK-12 Learning Right in the Lesson

- Lessons with videos
- Interactives throughout lesson
- Related Modalities
- Resources
- Adaptive Practice
- Mid-lesson Check for Understanding Questions



FlexBooks®

- Cover a variety of topics, primarily MS/HS Math and K-12 Science
- Original FlexBooks® have longer more traditional lessons; Concepts books have smaller bite-sized lessons with matching practice
- Ready-to-use, but also customizable
- Community Contributed books include other subjects and levels



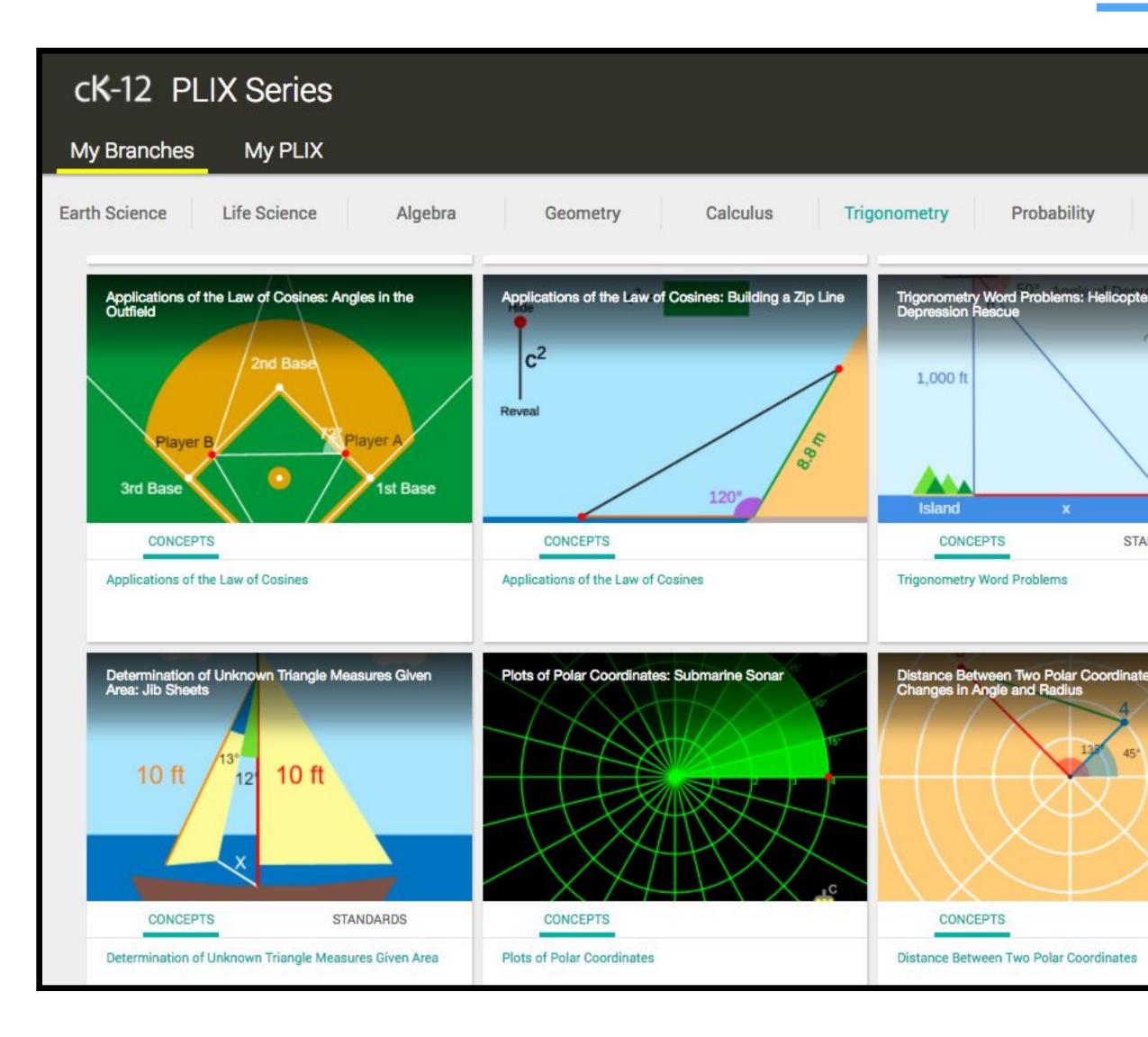
Concept-Based Learning

Understand scalar	Displacement r and vector quantitie	es and relate them to positio	n, distance, and displa		ew Classic Versk
CK-12 CONTENT	OMMUNITY CONT	TENT		All Levels 🔻	** VIEW ALL
We have provided many wa	iys for you to learn a	bout this topic.		+ Create	your own conter
C READ	cK-12	SIMULATIONS	cK-12	PLIX	cK-1
		Part San and		£ *	
Position and Displacement by CK-12 // At Grade Explains the difference bet (a scalar quantity) and disp	tween distance	Butterfly Stroke by CK-12 // At Grade Learn about the relationsh velocity and position for a	nip between	Changing Speeds by CK-12 // At Grade Changing Speeds Interac	tive
1 More Read	2	a More Simulation	15 2	é 0	2
VIDEO	cK-12	ACTIVITIES	cK-12	STUDY AIDS	cK-1
	lacement	2022			ener 2 abril
Distance and Disp				the to see and a construction of the state	
Distance and Disp Distance - a scalar quart Distance and Displaceme by CK-12 //Basic Overview	and the second se	Position and Displacemen Questions by CK-12 // At Grade A list of student-submitted questions for Position and	I discussion	Motion Study Guide by CK-12 // At Grade A review of the terms dis displacement, velocity, sp	tance,

- Distinct skills and topics for learning
- Text-based lessons
- Videos
- Adaptive Practice
- PLIX Interactives and Simulations
- Real World Applications
- Study Guides
- Assignments



PLIX Interactives



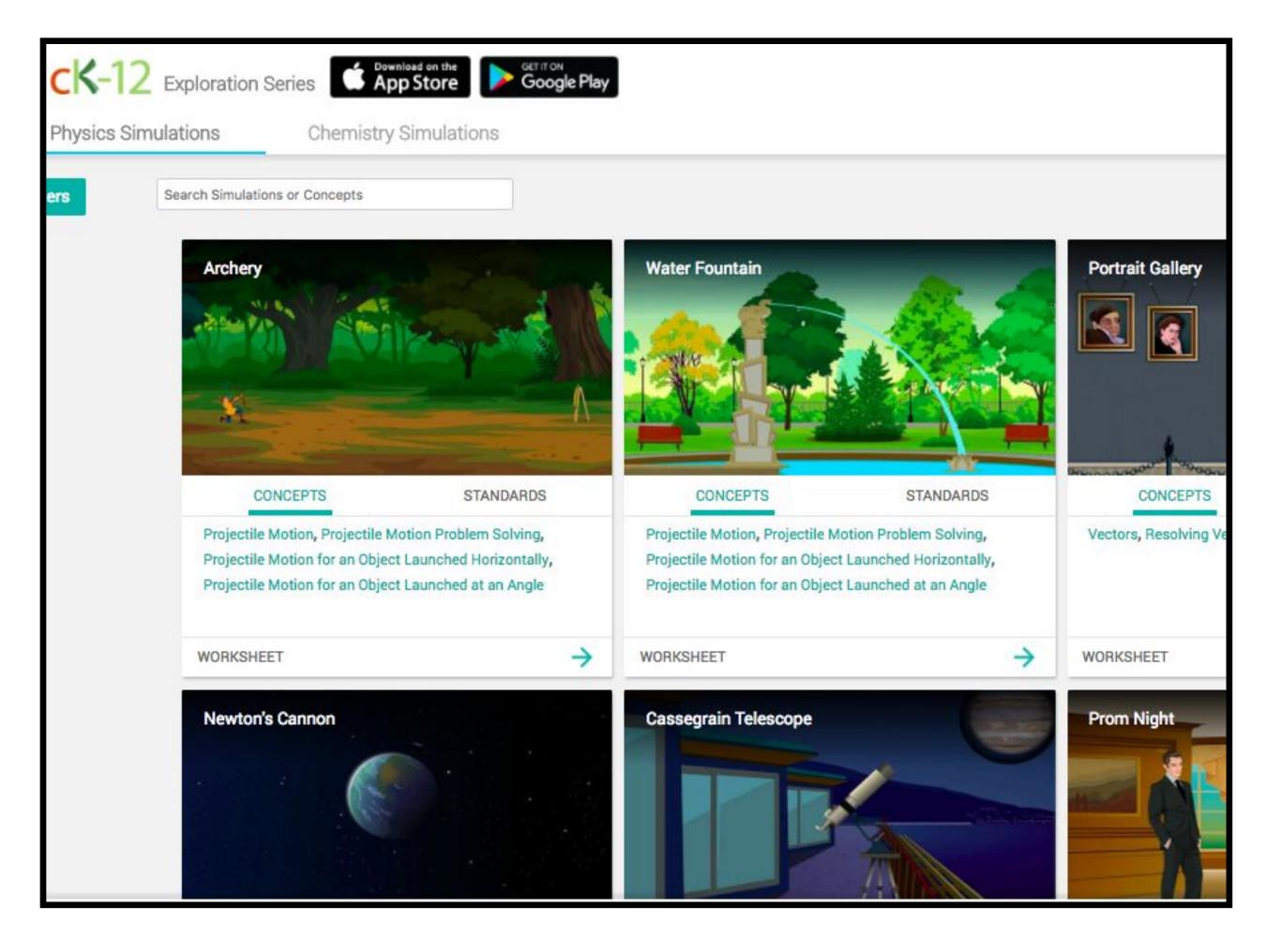


- 1,100+ PLIX
- Cover all branches of math and science
- Include descriptions, links to text lessons, and questions
- Variety of types that include real-world applications and explorations of topics









Simulations

- 120+ Physics and Chemistry Sims
- Vast topical coverage, from motion and
- mechanics to sound and light
- Real-world situations overlaid with sliders to give the student control of the learning
- Slider-based questions let students show their knowledge











Videos and Real-World Applications

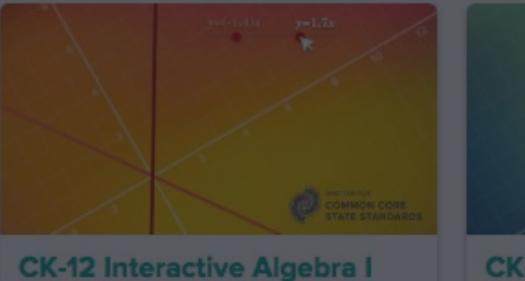
VIDEO C	K-12
Complete each conversion. 1. 6.3 km = m 2. 62.300 cm = hm	REAL WORLD CK-12
Metric Unit Conversion by CK-12 // Basic This video explains how to convert to different metric units of measure for	ST
47 13 More Videos	How Do You Control For The World? by CK-12 // At Grade Presents the student with the challenge of designing an experiment to investigat
	8 1 More Real World



- Concepts are supported with a variety of other modalities
- Videos and Real World
 Applications can also be assigned to students







(for CCSS)



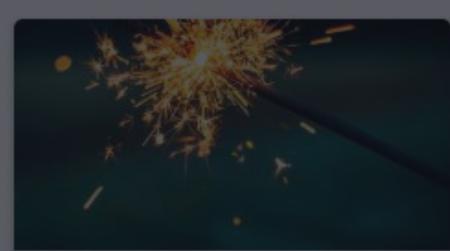
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Adaptive Practice

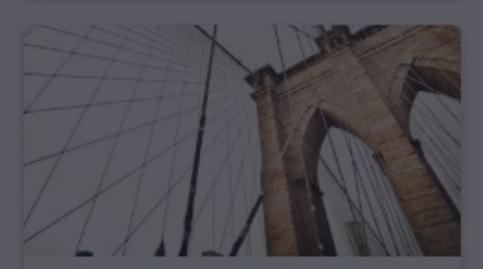
(for CCSS)

CK-12 Earth Science for Middle School

CK-12 Life Science for Middle School



CK-12 Chemistry for High School



CK-12 Interactive Physics for High School

CK-12 Physical Science for Middle School

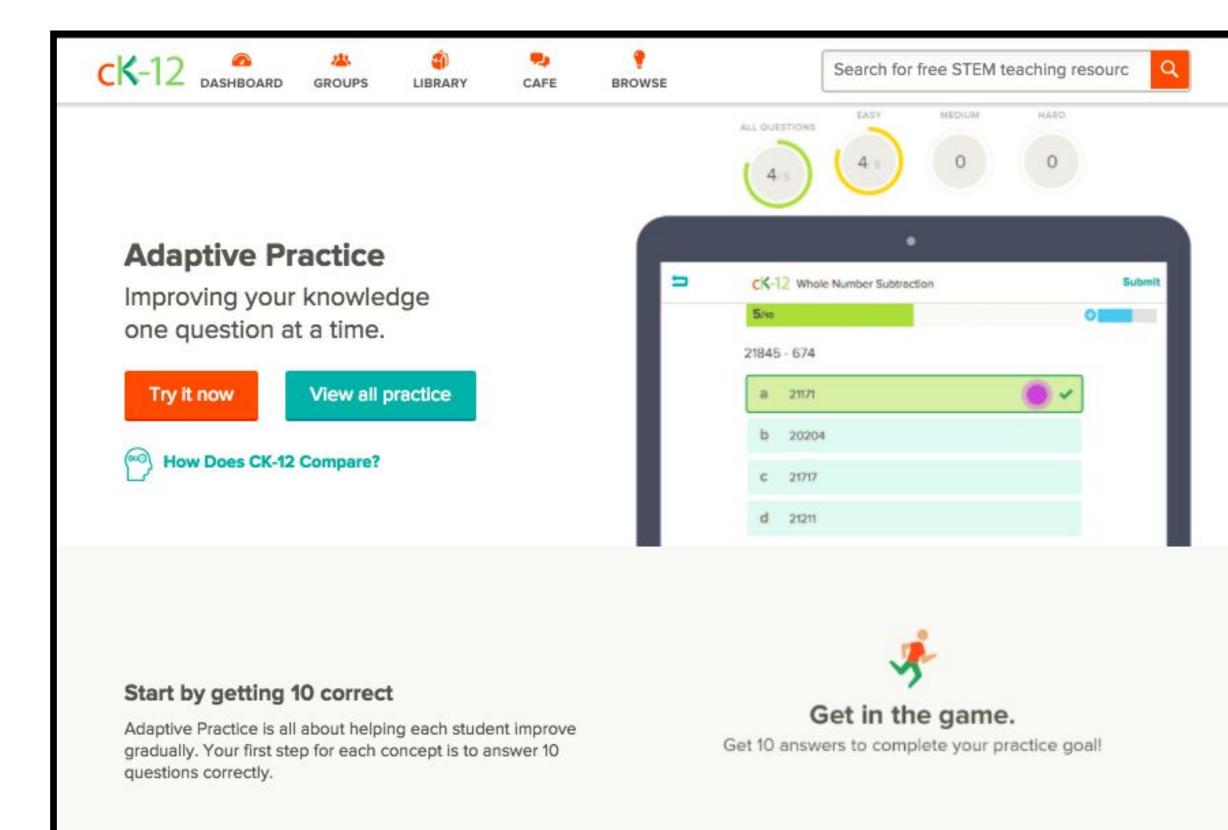
CK-12 Biology for High School





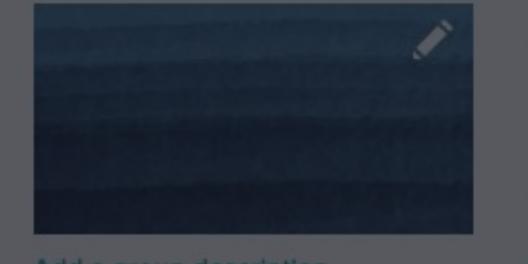


Adaptive Practice



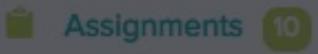
- Over 150,000 questions covering math, science, and spelling
- Questions at three levels
- Offers content when student struggles
- Adapts to student performance
- Customizable into "quizzes"





Add a group description

Home



Jumpstart Grades 🥒

Jumpstart Student

Assignment: Water Cycle Concept: Processes of the Water Cycle

YOUR PRACTICE GOAL

K Reports La Members (4)

Settings

BrainFlex summer challenge complete! Stay ahead all year with CK-12 Adaptive Practice!

See my report



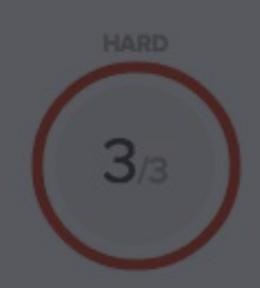
12/14



Review your answers











Use CK-12 Classes OR an Integrated LMS







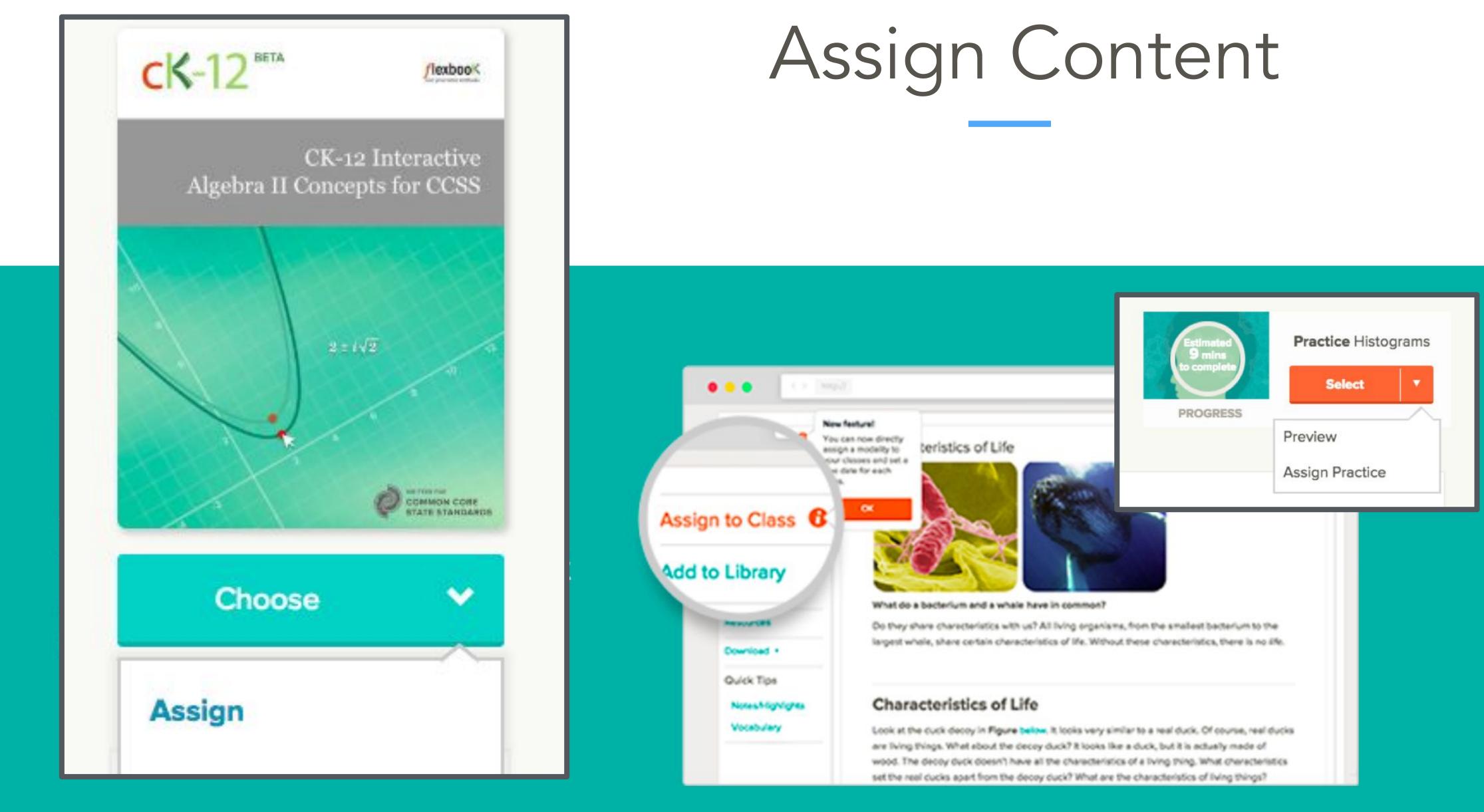


Google ?



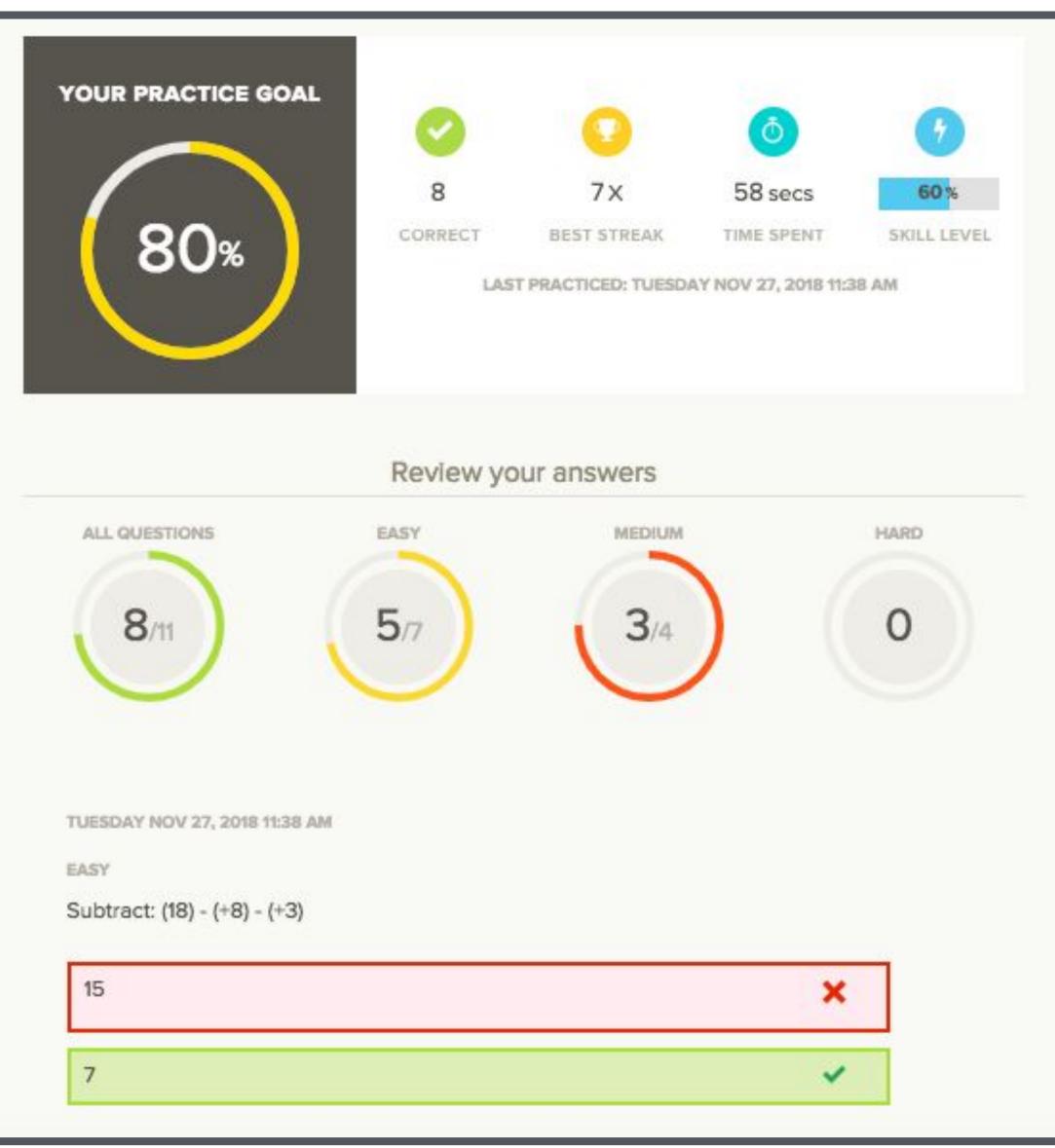








Detailed Reporting





cK-12





Assignment Report

	10/30	10/30	10/30	10/30	10/30	10/30	10/30	10/30	10/30	10/30
	Assignment 1	Assignment 2	Assignment 3	Assignment 4	Assignment 5	Assignment 6	Assignment 7	Assignment 8	Assignment 9	Assignm 10
	QUIZ	PRACTICE	QUIZ	QUIZ	QUIZ	QUIZ	PRACTICE	QUIZ	QUIZ	PRACTI
	Short Title	Very very long title probabl	Short Title	Very very long title probabl	Short Title	Very very long title probabl	Very very long title probabl	Very very long title probabl	Very very long title probabl	Very very le title proba
Student_1	92%	66%	94%	78%	63%	63%	75%	90%	58%	84%
Student_2	78%	92%	89%	68%	61%	81%	65%	95%	81%	78%
Student_3	66%	73%	81%	73%	88%	86%	69%	73%	86%	59%
Student_4	63%	60%	79%	95%	78%	89%	88%	• 93%	62%	71%
Student_5	64%	65%	95%	58%	61%	71%	78%	90%	76%	86%
Student_6	93%	65%	81%	93%	• 88%	68%	58%	64%	95%	89%
Student_7	94%	60%	76%	84%	89%	84%	81%	70%	74%	58%
Student 8	77%	87%	72%	74%	86%	89%	84%	70%	58%	70%



How to read Reports 0

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Customizing FlexBooks®

CK-12 Interactive (ECA)	dit Title) 46 / 100						
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- Table of Contents Level Editing allows for:
 - Deletion, addition, and/or
 - reordering of chapters and sections
 - Uploading of resources
 - Inclusion of details for the FlexBook®







Customizing FlexBook® Sections

	Graphing Polynomi	als			
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	Edit	Resources	Details	Related	What's different?
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- Section Editing allows for:
 - Standard text formatting options
 - Hyperlinked content
 - Formatted math equations
 - Uploaded images
 - Embedded videos and other media
 - Uploaded resources
 - Section details
 - Related modalites
 - (for 2.0 FlexBooks®)







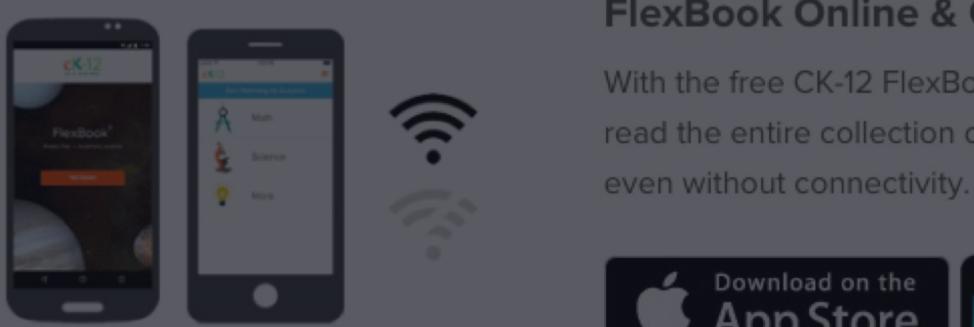
Customizing Practice

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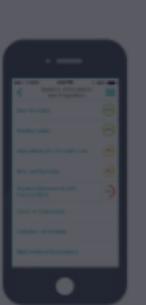
- Can pull from CK-12's 150,000+ math, science, and spelling questions
 Customization options include:
 Writing your own questions
 - Adding more than one topic
 - Picking specific questions
 - Turning hints on/off, shuffling questions, and time limits
- Report is based on % correct and includes details from time spent to level of questions to specific answers







Description Reals	
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CK-12 Practice App

Available for iPhone, iPad, and Android devices 100,000 adaptive practice questions, personalized recommendations, simple dashboard. Get started today.



FlexBook Online & Offline Access

With the free CK-12 FlexBook[®] app for smartphones and tablets, users have the power to read the entire collection of CK-12 FlexBook® textbooks anytime, anywhere,









Overview of CK-12 Resources

CK-12 has free resources for students, parents, teachers, schools, and districts. Take a closer look at everything CK-12 offers.



FlexBook[®] Digital Textbooks +

CK-12 FlexBooks® are fully customizable digital books which offer the best content for your students.



Concept-Based Learning + CK-12's Concept Pages offer a wide variety of STEM content allowing students to "learn it their way" and teachers to "teach it their way."



Adaptive **Practice**

CK-12's Adaptive Practice helps students learn in a way never before imaginable. Using machine learning, students practice, learn, and fill in their knowledge gaps.











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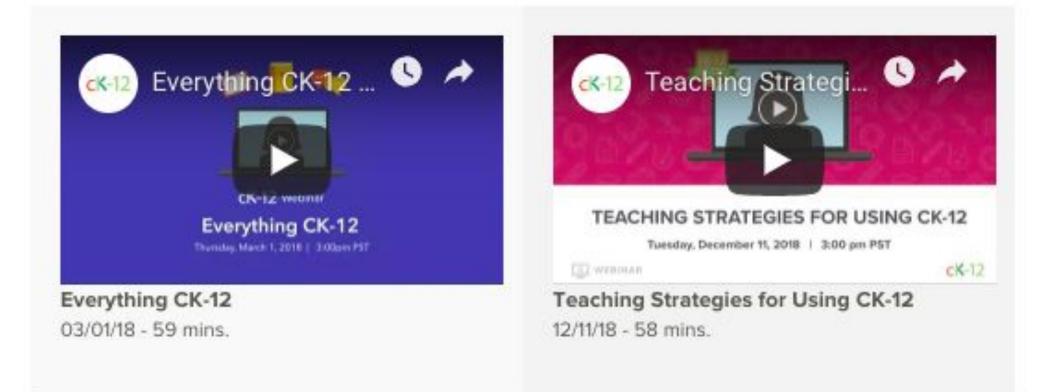


www.ck12.org/webinars

Archived Webinars

CK-12 Overview

Are you brand new to CK-12? These webinars give you an overview of our resources and strategies for using them.



FlexBooks®

Interested in learning about FlexBooks®? These webinars will help you find, customize, and/or create books on our site.













ck12.org/certified

Certified Educator Program

Sign-up now for CK-12's free Certified Educator Program - July 2018!

CEP Information

Help students succeed. Become CK-12 Certified.

Worldwide, educators like you reap the rewards from going CK-12. Customizable FlexBooks® boost engagement. Interactives bring more exploration to education. Adaptive Practice makes assignments differentiated, automated, and tailored to student needs.

We want you to benefit, too.



What do you want to learn today?



jumpstart@ck12.org

Q

Sign Up

CEP Alumni

Registration





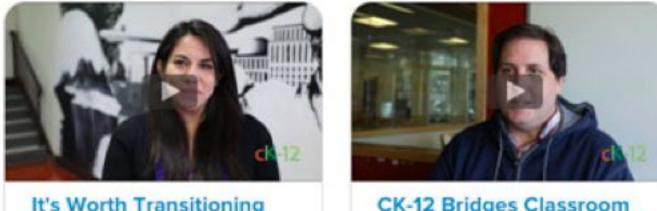
www.ck12.org/testimonials



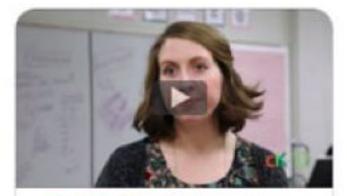
Choosing CK-12 FlexBooks® to Get 100% Alignment



CK-12 Makes Teaching Fun



It's Worth Transitioning from Traditional **Textbooks to CK-12** FlexBooks®



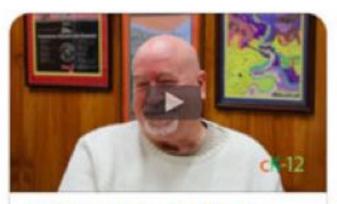
CK-12's Flexibility and Accessibility



Illustrations Come to Life with CK-12



Why CK-12 Works in El Paso, TX



CK-12's Free, Platform-Agnostic System for Finding and Editing OER Content



EPISD Saw Results After One Year of CK-12 **FlexBooks**[®]





Worry-Free Content Curation with CK-12







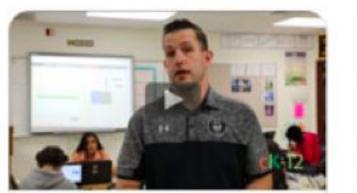
CK-12 Bridges Classroom Learning to Outside World



CK-12 as a Pre-Lesson Before Class



Easy to Update and Modernize Content with CK-12



CK-12 is Adjustable to Each Student's Level of Learning



Ck-12 Offers Support for All Students and Teachers Worldwide



CK-12 Has Engaging and Interactive Content



Designing a Lesson with CK-12





Using CK-12 Groups to **Track Progress and Plan**



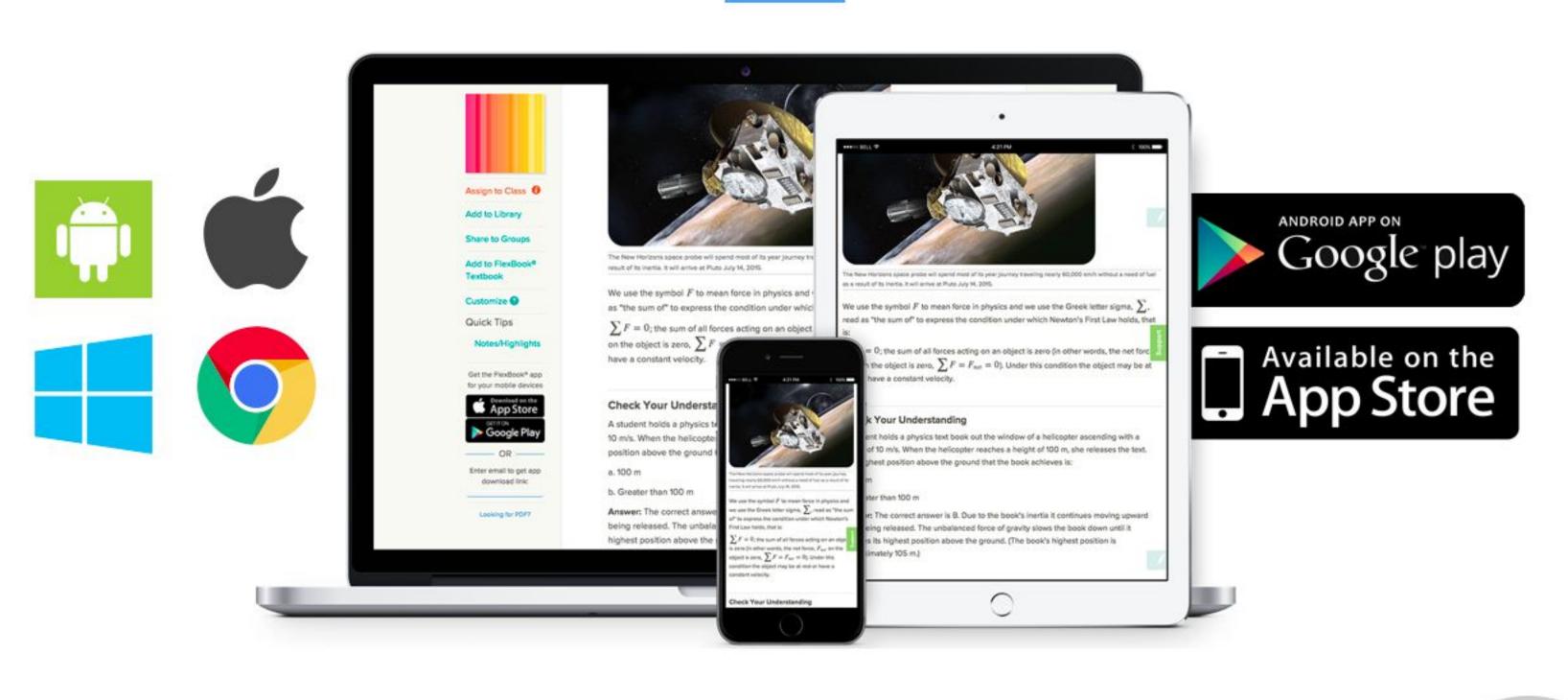


Homework is a Piece of Cake with CK-12





www.ck12.org/tools-and-apps









support@ck12.org support@otan.us









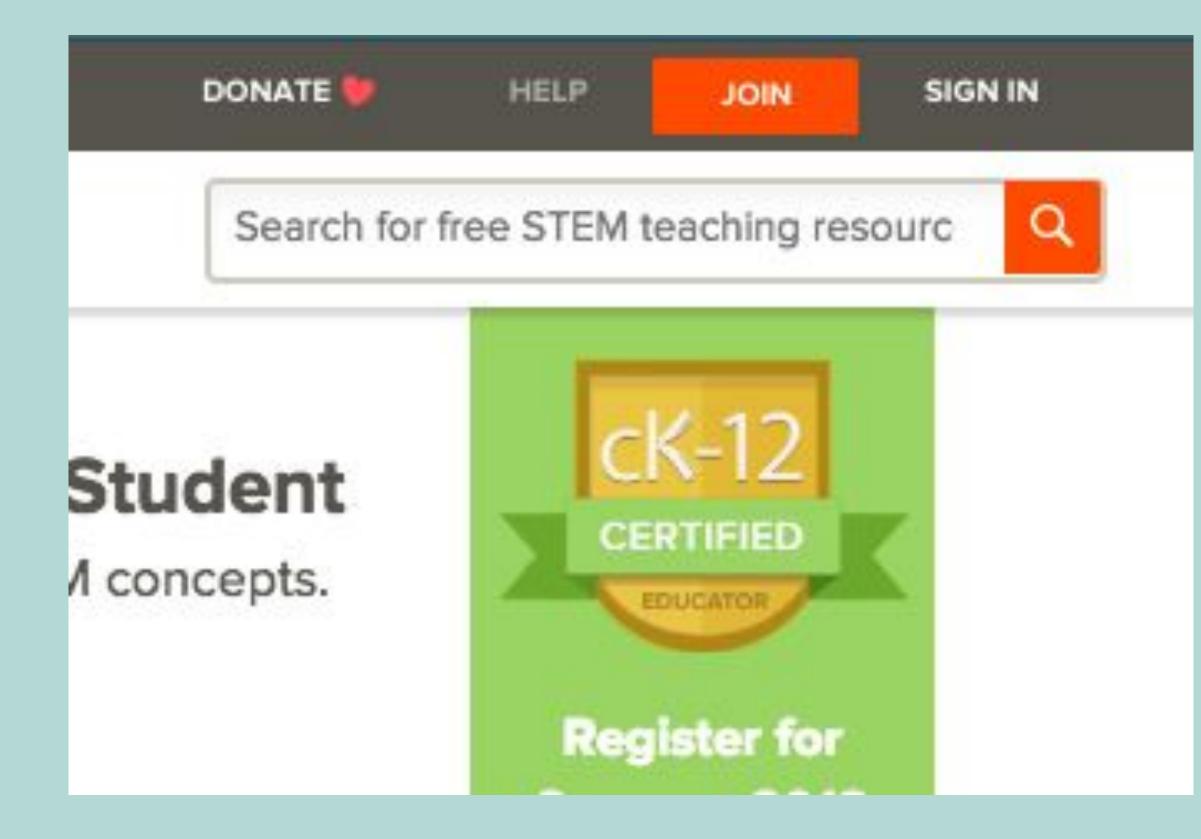
THANK



@CK12Foundation @OTAN



Try It: Getting Started



- Go to <u>www.ck12.org</u>
- Start Browsing
- Sign into CK-12



Try It: Customization

(Edi	t Title) 46 / 100	Algebra II Conce	epts for CCSS						
CK-12 Interactive a II Concepts for CCSS	Edit	Resource	s Details			What's	different?		
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		2.2 Dividing R	ational Expressions			> ↔			
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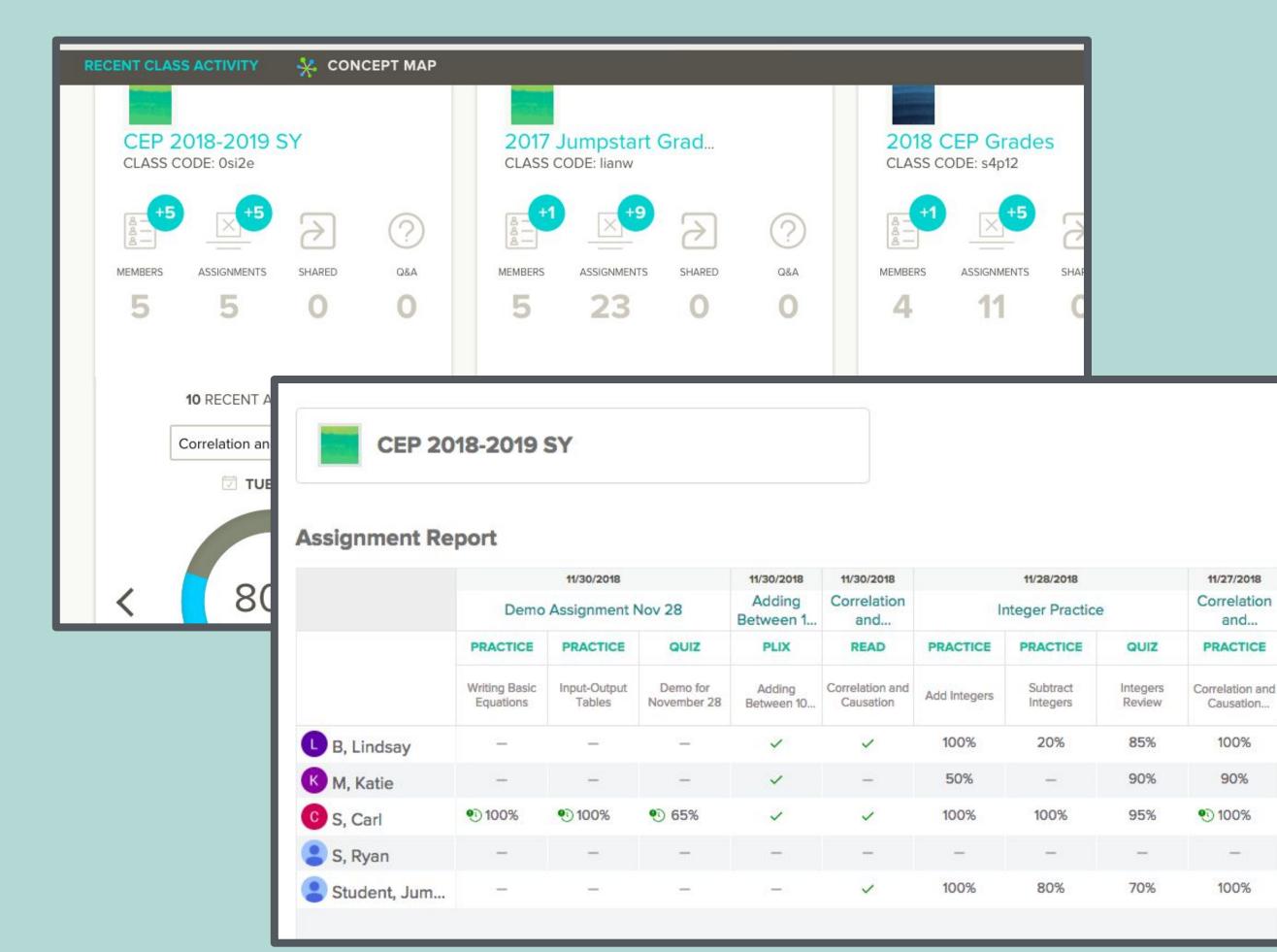
- Choose a FlexBook® or
 - Adaptive Practice & click
 - "customize" or start your own
 - from scratch
- Tailor learning or assessment content to your class and student needs





Try It: Assignments & Reports

and...



 Connect your LMS to CK-12 OR create a CK-12 Class

- Assign content to your class
- See student progress





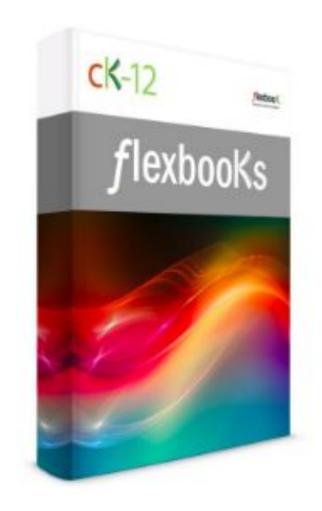






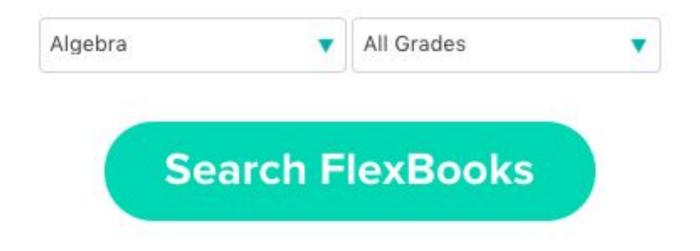


Try It: Find a FlexBook® (or Set of Concepts)



flexbooks

CK-12 FlexBooks® are fully customizable, digital textbooks which offer the best content for students and teachers. Viewable on Chromebooks, laptops, tablets, smartphones or desktops, FlexBooks® are standards-aligned and ready to be localized to engage students.



- What subject/grade are you teaching?
- Do you need a print version?
- Are you looking for longer traditional lessons or bite-sized sections?



1





Face-to-Face and **Online Training**

News Articles

Teaching with Technology

Teachers' and Administrators' Digests

Annual Technology and Distance Learning Symposium

> **Online Resources** for Adult Education

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